

Thomas K. Sorel Director

Doug Burgum Governor

November 9, 2017

## ADDENDUM 1 – JOB 43

TO: All prospective bidders on project IM-8-029(170)033, Job No. 43 scheduled for the November 17, 2017 bid opening.

The following plan and request for proposal revisions shall be made:

### Plan Revisions:

See attached summary from Chad Petersen, KLJ dated November 8, 2017 for an explanation.

Request for Proposal Revisions:

Remove and replace pages 8 thru 14 of 16 of the Proposal pages located at the beginning of the Request for Proposal, with the enclosed pages revised 11/9/2017.

The following changes were made to the Bid Items:

Spec	Code	Description	Description of Change
No.	No.		
612	0116	<b>REINFORCING STEEL-GRADE 60-</b>	Decreased from 68,764 to 68,747 LBS
		EPOXY COATED	
624	3005	CONNECTION PLATE MODIFICATION	Added Bid Item at 2 EA
714	9640	RELAY PIPE-ALL TYPES & SIZES	Added Bid Item at 1,726 LF
714	9659	REMOVE AND RELAY PIPE-ALL	Decreased from 1,960 to 234 LF
		TYPES & SIZES	
900	1000	TEMPORARY STREAM DIVERSION	Added Bid Item at 1 EA

## Add Special Provision SP 584(14) TEMPORARY WATER DIVERSION.

This addendum is to be incorporated into the bidder's proposal for this project. AASHTOWare Project Bids files should be updated by downloading the addendum file from the Bid Express online bidding exchange at <u>http://www.bidx.com/</u> and load it into the AASHTOWare Project Bids program.

the

PHILLIP MURDOFF – CONSTRUCTION SERVICES ENGINEER 80:jwj Enclosure



1010 4th Avenue Southwest Valley City, ND 58072-3907 701 845 4980 KLJENG.COM

November 8, 2017

#### ADDENDUM 1 JOB 43

TO: All prospective bidders and suppliers on Project IM-8-029(170)033 scheduled for the November 17, 2017 bid opening.

#### Revisions for IM-8-029(170)033:

#### Remove & replace plan sheet:

•	Section 2	Sheets	1-2	Revised 11/03/201	7
•	Section 6	Sheets	2-6	Revised 11/08/201	7
•	Section 8	Sheet	1	Revised 11/07/201	7
•	Section 60	Sheets	30-34	Revised 11/07/201	7
•	Section 170	Sheets	27, 31	Revised 09/21/201	7
with th	ne enclosed re	evised sh	neets.		
Add pla	an sheet:				
•	Section 170	Sheets	23A	Added 09/21/2017	
with th	ne enclosed re	evised sh	neet.		
Add Sta	andard Drawir	na:			
•	D-752-3	3		Added 11/03/2017	
with th	ne enclosed sh	neet.			
Add Sp	ecial Provisio	n:			
•	584(14) Tem	oorary W	ater Diversion	Added 11/03/2017	
with th	ne enclosed sh	neets.			

#### **SECTION 2**

SHEET 1:

• Revised to add SP 584(14) Temporary Water Diversion.

#### SHEET 2:

• Added Standard Drawing D-752-3 Standard Woven Wire Fence to the list of Standard Drawings.

#### SECTION 6

SHEET 2:

• Note 302-P04: Plan Note 302-P04 has been revised.

SHEET 3:

• Note 704-P02: Phase 3 Traffic Control has been revised to restrict head to head traffic prior to April 1, 2018.

SHEET 4:



- Note 704-P05: Plan Note 704-P05 Tubular Markers has been revised to indicate the number of weighted tubular markers available for resetting and the amount required.
- Note 704-P08: Plan Note 704-P08 Flexible Delineators has been removed.
- Note 704-P09: Plan Note 704-P09 has been renumbered to 704-P08. The note has been revised to allow grinding on new pavement surfaces for obliteration of existing pavement markings.

#### SHEET 5:

• Note 714-P04: Plan Note 714-P04 has been added to provide a separate bid item for relaying the PVC Pipe.

#### SHEET 6:

• Note 764-P01: Plan Note 764 P01 is now split between pages 5 & 6.

#### SECTION 8

#### SHEET 1:

• Revised Quantities:

Spec	Code	Description	Unit	Previous	Addendum
opee	couc		•	Quantity	1 Quantity
612	0116	REINFORCING STEEL-GRADE 60-EPOXY COATED	LBS	68,764	68,747
624	3005	CONNECTION PLATE MODIFICATION	EA	n/a	2
714	9640	RELAY PIPE-ALL TYPES & SIZES	LF	n/a	1,726
714	9659	REMOVE & RELAY PIPE-ALL TYPES & SIZES	LF	1,960	234
900	1000	TEMPORARY STREAM DIVERSION	EA	n/a	1

#### SECTION 60

#### SHEET 30-34:

Revised bid item quantities so "714-9640 RELAY PIPE-ALL TYPES & SIZES" represents the PVC pipe remove and relay quantities.

#### SECTION 170

#### SHEET 23A:

• Sheet added for connection plate modification details.

#### SHEET 27:

• Updated 612-0116 Reinforcing Steel - Grade 60 - Epoxy Coated quantity.

#### SHEET 31:

• Updated Reinforcing Steel (Epoxy) Quantity.



#### SPECIAL PROVISION

• Added SP 584(14) Temporary Water Diversion.

#### STANDARD DRAWING

• Added Standard Drawing D-752-3 Standard Woven Wire Fence.

Sincerely, KLJ

Chad Petersen

Project Engineer

Enclosure(s): Revised Plan Sheet -Project #: IM-8-029(170)033 c: Amy Beise, NDDOT

**BID ITEMS** 

	Bidder must type or neatly print unit prices in numerals, make extensions for each item, and total. Do not carry unit prices further than three (3) decimal places.								
Item	Spec	Code			Approx.	Unit Price		Amount	
No.	No.	No.	Description	Unit	Quantity	\$\$\$\$\$	000	\$\$\$\$\$	00
049	602	1135	BRIDGE APPROACH SLAB-REMOVE & REPLACE	SY	364.400				
050	602	1250	PENETRATING WATER REPELLENT TREATMENT	SY	783.				
051	612	0114	REINFORCING STEEL-GRADE 60-BOX CULVERT	LBS	9,392.				
052	612	0115	REINFORCING STEEL-GRADE 60	LBS	1,204.				
053	612	0116	REINFORCING STEEL-GRADE 60-EPOXY COATED	LBS	68,747.				
054	624	3002	DOUBLE BOX BEAM RAIL RETROFIT - E-RAIL	LF	1,441.700				
055	624	3005	CONNECTION PLATE MODIFICATION	EA	2.				
056	702	0100	MOBILIZATION	L SUM	1.				
057	704	0100	FLAGGING	MHR	3,250.				
058	704	1000	TRAFFIC CONTROL SIGNS	UNIT	14,096.				
059	704	1045	ATTENUATION DEVICE-TYPE B-75	EA	2.				
060	704	1052	TYPE III BARRICADE	EA	63.				
061	704	1060	DELINEATOR DRUMS	EA	514.				
062	704	1067	TUBULAR MARKERS	EA	1,649.				
063	704	1070	DELINEATOR	EA	460.				
064	704	1072	FLEXIBLE DELINEATORS	EA	864.				

**BID ITEMS** 

	Bidder must type or neatly print unit prices in numerals, make extensions for each item, and total. Do not carry unit prices further than three (3) decimal places.								
Item	Spec	Code			Approx.	Unit Price	)	Amount	
No.	No.	No.	Description	Unit	Quantity	\$\$\$\$\$	000	\$\$\$\$\$	00
065	704	1080	STACKABLE VERTICAL PANELS	EA	166.				
066	704	1081	VERTICAL PANELS-BACK TO BACK	EA	12.				
067	704	1087	SEQUENCING ARROW PANEL-TYPE C	EA	2.				
068	704	1088	SEQUENCING ARROW PANEL-TYPE C-CROSSOVER	EA	2.				
069	704	1090	FLASHING BEACON	EA	2.				
070	704	1500	OBLITERATION OF PAVEMENT MARKING	SF	6,965.				
071	704	3510	PRECAST CONCRETE MED BARRIER-STATE FURNISHED	EA	79.				
072	706	0400	FIELD OFFICE	EA	1.				
073	706	0500	AGGREGATE LABORATORY	EA	1.				
074	706	0600	CONTRACTOR'S LABORATORY	EA	1.				
075	709	0100	GEOSYNTHETIC MATERIAL TYPE G	SY	17,904.				
076	709	0151	GEOSYNTHETIC MATERIAL TYPE R1	SY	4,298.				
077	709	0155	GEOSYNTHETIC MATERIAL TYPE RR	SY	112.				
078	714	0615	PIPE CONC REINF 24IN CL III	LF	194.				
079	714	0820	PIPE CONC REINF 30IN CL III	LF	56.				
080	714	0905	PIPE CONC REINF 36IN CL III	LF	80.				

**BID ITEMS** 

	Bidder must type or neatly print unit prices in numerals, make extensions for each item, and total. Do not carry unit prices further than three (3) decimal places.								
Item	Spec	Code			Approx.	Unit Price	;	Amount	
NO.	NO.	INO.	Description	Unit	Quantity	\$\$\$\$\$	000	\$\$\$\$\$	00
081	714	1005	PIPE CONC REINF 42IN CL III	LF	6.				
082	714	3020	END SECT-CONC REINF 24IN	EA	18.				
083	714	3023	END SECT-TRAVERSABLE REINF. CONC.24IN	EA	11.				
084	714	3030	END SECT-CONC REINF 30IN	EA	4.				
085	714	3033	END SECT-TRAVERSABLE REINF. CONC.30IN	EA	3.				
086	714	3035	END SECT-CONC REINF 36IN	EA	13.				
087	714	3036	END SECT-TRAVERSABLE REINF. CONC.36IN	EA	1.				
088	714	3040	END SECT-CONC REINF 42IN	EA	1.				
089	714	3045	END SECT-CONC REINF 48IN	EA	1.				
090	714	4122	PIPE CONDUIT 42IN-APPROACH	LF	144.				
091	714	7030	PIPE PVC 12IN	LF	311.				
092	714	9640	RELAY PIPE-ALL TYPES & SIZES	LF	1,726.				
093	714	9659	REMOVE & RELAY PIPE-ALL TYPES & SIZES	LF	234.				
094	714	9660	REMOVE & RELAY END SECTION-ALL TYPE & SIZES	EA	2.				
095	714	9900		SET	298.				
096	714	9917	FLAP GATE 42IN	EA	3.				

**BID ITEMS** 

	Bidder must type or neatly print unit prices in numerals, make extensions for each item, and total. Do not carry unit prices further than three (3) decimal places.								
Item	Spec	Code			Approx.	Unit Price	;	Amount	
No.	No.	No.	Description	Unit	Quantity	\$\$\$\$\$	000	\$\$\$\$	00
097	720	0125	ALIGNMENT MONUMENTS	EA	1.				
098	720	0135	IRON PIN REFERENCE MONUMENTS	EA	11.				
099	722	3485	CASTING MOUNTABLE CURB-TYPE A	EA	12.				
100	722	4581	RELAY PRECAST CONCRETE MEDIAN DRAIN	EA	1.				
101	748	0141	CURB & GUTTER-TYPE 1 SPECIAL	LF	60.				
102	748	0150	MOUNTABLE CURB & GUTTER-TYPE 1 SEC A	LF	480.				
103	752	0700	FENCE WOVEN WIRE	LF	9,139.				
104	752	0993	FENCE TERMINAL	EA	7.				
105	752	3120	CORNER ASSEMBLY WOVEN WIRE	EA	10.				
106	752	4120	DOUBLE BRACE ASSEMBLY WOVEN WIRE	EA	2.				
107	754	0110	FLAT SHEET FOR SIGNS-TYPE XI REFL SHEETING	SF	50.				
108	754	0112	FLAT SHEET FOR SIGNS-TYPE IV REFL SHEETING	SF	59.				
109	754	0195	DIAMOND GRADE DELINEATORS-TYPE A	EA	141.				
110	754	0196	DIAMOND GRADE DELINEATORS-TYPE B	EA	64.				
111	754	0198	DIAMOND GRADE DELINEATORS-TYPE D	EA	18.				
112	754	0199	DIAMOND GRADE DELINEATORS-TYPE E	EA	2.				

**BID ITEMS** 

		Bido tota	der must type or neatly print unit prices in numera I.  Do not carry unit prices further than three (3) d	als, mal ecimal	ke extensions places.	for each iten	n, and		
Item	Spec	Code			Approx.	Unit Price	)	Amount	
NO.	No.	NO.	Description	Unit	Quantity	\$\$\$\$\$	000	\$\$\$\$\$	00
113	754	0210	GALV STEEL POST-STANDARD PIPE	LF	139.				
114	754	0214	GALV STEEL POSTS-W-SHAPE POSTS(TWO OR MORE)	LF	692.				
115	754	0534	PANEL FOR SIGNS-TYPE IV REFLECTIVE SHEETING	SF	1,116.				
116	754	0556	INTERSTATE MILE POSTS-TYPE B	EA	11.				
117	754	0801	OBJECT MARKERS - TYPE I	EA	3.				
118	754	0805	OBJECT MARKERS - CULVERTS	EA	69.				
119	754	1100	CLASS AE CONCRETE-SIGN FOUNDATIONS	СҮ	3.100				
120	754	1104	REMOVE SIGN FOUNDATION	EA	23.				
121	754	1220	REMOVE OVERHEAD SIGN STR BRIDGE MOUNTED	EA	1.				
122	760	0001	RUMBLE STRIPS - CONCRETE SHOULDER	MILE	20.840				
123	762	0103	PVMT MK PAINTED-MESSAGE	SF	82.500				
124	762	0200	RAISED PAVEMENT MARKERS	EA	28,092.				
125	762	0430	SHORT TERM 4IN LINE-TYPE NR	LF	76,271.				
126	762	1104	PVMT MK PAINTED 4IN LINE	LF	225,111.				
127	762	1108	PVMT MK PAINTED 8IN LINE	LF	2,518.				
128	762	1124	PVMT MK PAINTED 24IN LINE	LF	130.				

**BID ITEMS** 

		Bido tota	ler must type or neatly print unit prices in numera .  Do not carry unit prices further than three (3) de	ls, mal ecimal	ce extensions places.	for each iten	n, and		
Item	Spec	Code			Approx.	Unit Price	)	Amount	
No.	No.	No.	Description	Unit	Quantity	\$\$\$\$\$	000	\$\$\$\$\$	00
129	764	0131	W-BEAM GUARDRAIL	LF	1,164.				
130	764	0145	W-BEAM GUARDRAIL END TERMINAL	EA	24.				
131	764	0151	REMOVE W-BEAM GUARDRAIL & POSTS	LF	1,908.				
132	764	1050	RESET W-BEAM GUARDRAIL	LF	800.				
133	764	1990	REMOVE CONCRETE SAFETY SHAPE TRANSITION	EA	4.				
134	764	2081	REMOVE END TREATMENT & TRANSITION	EA	20.				
135	900	1000	TEMPORARY STREAM DIVERSION	EA	1.				
136	990	0400	PIPE CLEANOUT	EA	12.				
			SUBTOTAL						
			ALTERNATE A						
137	216	0100	WATER	M GAL	609.				
138	302	0100	SALVAGED BASE COURSE	TON	30,453.				
139	550	0105	6IN NON-REINF CONCRETE PAVEMENT CL AE	SY	42,786.				
			SUBTOTAL ALTERNATE A						

#### PROPOSAL FORM

North Dakota Department of Transportation

**BID ITEMS** 

		Bido tota	der must type or neatly print unit prices in numera I.  Do not carry unit prices further than three (3) d	als, mak ecimal	ce extensions places.	for each iten	n, and		
Item	Spec	Code			Approx.	Unit Price	9	Amount	
NO.	NO.	NO.	Description	Unit	Quantity	\$\$\$\$\$	000	\$\$\$\$\$	00
			ALTERNATE B						
140	216	0100	WATER	M GAL	785.				
141	302	0100	SALVAGED BASE COURSE	TON	39,244.				
142	401	0050	ТАСК СОАТ	GAL	2,220.				
143	401	0060	PRIME COAT	GAL	12,034.				
144	430	0040	SUPERPAVE FAA 40	TON	9,877.				
145	430	1000	CORED SAMPLE	EA	109.				
146	430	5803	PG 58S-28 ASPHALT CEMENT	TON	594.				
147	706	0550	BITUMINOUS LABORATORY	EA	1.				
			SUBTOTAL ALTERNATE B						
			SUBTOTAL + SUBTOTAL ALTERNATE A						
			SUBTOTAL + SUBTOTAL ALTERNATE B						

## NORTH DAKOTA DEPARTMENT OF TRANSPORTATION

## SPECIAL PROVISION (SP)

## TEMPORARY WATER DIVERSION

## Project 8-0029(170)033 - PCN 21496

#### DESCRIPTION

Diversions are used to temporarily reroute surface water or restrict flows to allow for the construction activities to take place.

This work consists of constructing and maintaining a temporary diversion to allow for the installation of extension of a 10 foot by 7 foot triple box culvert at Station 2007+77.

This work is in conjunction with the requirements of SP 03(14) "Temporary Erosion and Sediment Best Management Practices," and the Construction General Permits.

#### MATERIALS

Item	Section
Geosynthetic Type R1	858

Where R1 material is specified according to the design, alternative materials may be used if the alternative material has a lower permittivity and higher strength than Geosynthetic Type R1.

### CONSTRUCTION REQUIREMENTS

#### A. General.

Obtain and modify all appropriate permits before work commences on the diversions.

Design, construct, operate, and remove temporary diversions to prevent soil/water interaction.

Strip and stockpile topsoil from areas where the temporary diversion will be constructed and installed. Do not place stockpiles between the diversion and the work area. Stabilize stockpiles placed within 200 feet of the diversion and work area within 24 hours of construction of the stockpile

Isolate work area using dikes or other methods even when no water is present. Construct the diversion before beginning work on the structure.

#### 1. Plan Submittal.

Submit a design for the diversion that includes work drawings and include the submittals with the Storm Water Pollution Prevention Plan (SWPPP).

### 2. Design.

Design the temporary diversion to withstand the 2 year event shown in Appendix A and meet the following:

- If flow occurs while the diversion is in place, a portion of the flow must be passed as water accumulates in order to maintain flows downstream;
- Maintain downstream water quality equal to the upstream water quality; and
- Include provisions that will prevent the accumulation of job site sediment in the diversion.

### **B.** Diversion Components.

Construction of the diversion may entail using the components listed below or other methods approved by the Engineer.

Install diversion measures before beginning work on the structure.

### 1. Dike.

Construct upstream and downstream dikes to isolate the work area. Construct dikes using one or more of the following materials:

- Sandbags;
- Sheet piles;
- Soil wrapped with Geosynthetic Type R1;
- Water filled bladder;
- Impermeable containers; or
- Prefabricated dams.

#### 2. Work Area Dewatering.

Operate the dewatering system within the work area to prevent any change in water quality of the water body. Before beginning dewatering of the work area, provide an inlet control system that limits sediment from entering the system and provide a stabilized discharge from the dewatering system.

Inlet control systems may include:

- Surface skimmers;
- Aggregate filled perforated containers; or
- Inlet filter sock.

Stabilized discharges may include:

- Dewatering basin;
- Sediment bag; or
- Filtering through vegetation.

Design and operate the discharge so that there is no visible sediment plume present in the water body and the discharge causes no additional erosion or sediment.

Do not discharge water directly to the water body or the diversion.

#### 3. Culvert Installation.

Provide positive drainage from the upstream to downstream ends of the culvert and install energy dissipation measures at culvert outlets.

#### a. Culvert Through Existing Structure.

Install pipes through the existing structure.

Construction may include using the following steps:

- (1) Install a temporary culvert through the structure.
- (2) Anchor and seal the installed pipes at the upstream impervious dike.
- (3) Extend the installed pipes through the downstream impervious dike.

#### b. Culvert Diversion.

Install a temporary pipe crossing under the roadway near the existing structure.

#### 4. Channels.

Construct channels with side slopes that are 2:1 or flatter with a channel bottom of sufficient width. Cover disturbed slopes and channel bottom with Geosynthetic Material, Type R1.

Overlap splices and joints placed at least 36 inches.

Secure the liner using methods that will ensure that the liner will not be disturbed by the design flows shown in Appendix A. Potential methods of securing the liner may include:

- Staples;
- Pins;
- Sandbags; or
- Riprap.

Patch damaged areas of channel liner. Place a patch that overlaps the damaged area by 36 inches on all sides. Secure the patch with pins or staples.

Install fiber rolls or silt fence along the top of the channel to prevent any sediment or debris from entering the channel.

Connect the downstream end of the channel before connecting the upstream end of the channel to the existing water body.

### 5. Diversion Pumping.

Place an inlet control system at pump inlets. An inlet control systems may include:

- Surface skimmers;
- Aggregate filled perforated containers; or
- Inlet filter sock.

Route the discharge hose through the structure or work area.

Design and operate the discharge so that no visible sediment plume is present in the water body and so the discharge causes no additional erosion of the water body.

### C. Diversion Removal.

Do not begin removal of the temporary diversion until the construction activities relating to the structure are complete and all permanent erosion and sediment control devices are in place. Remove the diversion in a manner that prevents soil/water interaction.

Remove all materials used to construct the diversion.

Restore the area affected by the temporary diversion to the same condition that existed before construction.

#### 1. Downstream Dike.

Remove the downstream dike first. Stabilize the areas above the waterline where the downstream dike was located.

#### 2. Upstream Dike.

Remove the upstream dike to restore normal flow through the structure before removal of any devices used to create the diversion.

Stabilize the areas above the waterline where the upstream dike was located.

#### a. Suspended Pipe.

Remove the suspended pipe at the same time as removing the upstream dike.

#### b. Channel and Pipe Diversion.

Remove the upstream dike and construct a dike to prevent water from entering the channel or pipe diversion.

### 3. Pipe.

Remove pipe after the stream has been restored to normal flow.

#### 4. Channel.

Backfill temporary channels outside of the roadway embankment as specified in Section 203.04 E.3, "Compaction Control, Type B". When backfilling roadway embankment areas, benching of slopes will be required as specified in Section 203.04 E.1, "General".

### METHOD OF MEASUREMENT AND BASIS OF PAYMENT

Pay ItemPay UnitTemporary Stream DiversionEach

The Engineer will pay for the stream diversion according to the Table 1.

Table 1						
Work Completed	Percent of Contract Unit Price					
Stream Diversion Installed	75					
Restoration of the Diversion	25					

Include the cost for installation, maintenance, and removal of erosion control devices used in conjunction with the stream diversion in the contract unit price for "Temporary Stream Diversion". Section 4, "Basis of Payment" in SP 03(14) does not apply to erosion control devices used in conjunction with stream diversions.

Such payment is full compensation for designing, furnishing all equipment, material, labor, and other incidentals to complete the work as specified.

## Appendix A

2 Year 24 Hour Flow					
Structure Number	Station	Existing Structure	Min Discharge (cfs)		
		Туре			
29+038.039	2007+77	Triple Box Culvert	162.5		

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### PLAN SECTIONS

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Section	Page(s)	Description	Number	Description
1	1	Title Sheet	SP 003(14)	Temporary Erosion and Sediment Best Man
2	1 - 2	Table of Contents & List of Standard Drawings	SP 004(14)	Federal Migratory Bird Treaty Act
4	1	Scope of Work	SP 51/1(14)	Permits and Environmental Considerations
6	1 - 6	Notes	SP 584(14)	Temporary water Diversion
6	7	Environmental Notes		
8	1	Quantities		
10	1 - 4	Basis of Estimate		
11	1 - 2	Earthwork Summary		
11	3 - 10	Average End Area Tables		
11	11	Mass Haul Diagram		
20	1 - 2	Superelevation Detail		
20	3	Milling & Paving Transition Detail		
20	4	Median Approach Detail		
20	5	PCC Pavement & Joint Details		
20	6	Mainline Centerline Pipe Extension Detail		
20	7	Erosion Control at Culvert Flared End Sections		
20	8	Median Drain Detail		
20	9	Median Block Detail		
20	10	Riprap Detail		
20	11	South Median Crossover Paving Detail		
20	12	Subcut Detail		
20	13	Speed Measurement Pavement Markings		
30	1 - 7	Typical Sections		
40	1 - 25	Removals		
50	1	Hydraulic Data		
51	1 - 3	Allowable Pipe List		
60	1 - 34	Plan & Profile		
75	1 - 20	Wetland Impacts		
76	1 - 15	Temporary Erosion Control		
77	1 - 15	Permanent Erosion Control		
80	1 - 12	Layouts		
81	1 - 8	Survey Coordinate and Curve Data		
82	1 - 16	Survey Data Layouts		
90	1 - 7	Paving Layouts		
100	1 - 35	Work Zone Traffic Control		
110	1 - 32	Signing		
130	1 - 9	Guardrail		
170	1 - 34	Bridges and Box Culverts		
200	1 - 289	Cross Sections - Interstate 29		
200	290 - 376	Cross Sections - Ramp Connections		

Revised 11/3/2017

STATE	PROJECT NO.	SECTION NO.	SHEET NO.
ND	IM-8-029(170)033	2	1

## SPECIAL PROVISIONS

nd Sediment Best Management Practices

Revised 11/3/2017

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## LIST OF STANDARD DRAWINGS

Number	Description	Number	Description
D-101-1, 2,3	NDDOT Abbreviations	D-720-1	Standard Monuments And Right Of V
D-101-10	NDDOT Utility Company and Organization Abbreviations	D-722-3	Inlet - Mountable Curb
D-101-20, 21	Line Styles	D-722-7	Precast Concrete Median Drain
D-101-30, 31,32	Symbols	D-748-1	Curb & Gutter And Valley Gutter
D-255-1	Bridge Approach Slab Drainage Detail	D-752-3	Standard Woven Wire Fence
D-255-2	Erosion And Siltation Control - Erosion Control Blanket Installation	D-754-1	Pipe Or W-Shape Assembly Details
D-260-1	Erosion And Siltation Controls - Silt Fence	D-754-2	Breakaway Coupler System For Star
D-261-1	Erosion Control - Fiber Roll Placement Details	D-754-3	Breakaway System for Standard Pip
D-550-2	Longitudinal Joint Details	D-754-4	Multi-Directional Breakaway System
D-550-5	Transverse Construction Joint	D-754-5	Foundation Data For Steel Supports
D-704-1	Attenuation Device	D-754-6	Hinge Plate, Fuse Plate, And Founda
D-704-5	Contractor Sign Detail	D-754-7	Pipe Support And Sign Mounting Det
D-704-7	Breakaway Systems For Construction Zone Signs - Perforated Tube	D-754-9	Letter And Arrow Details For Variable
D-704-8	Breakaway Systems For Construction Zone Signs - U-Channel Post	D-754-12	Breakaway Coupler System - Structu
D-704-9	Construction Sign Details - Terminal And Guide Signs	D-754-13	Breakaway System Structural Details
D-704-10	Construction Sign Details - Regulatory Signs	D-754-14	Wind Beams And Anchor Plates For
D-704-11	Construction Sign Details - Warning Signs	D-754-20	(Expressway-Freeway Use) Mile Pos
D-704-12	Shoulder Closure Tapers	D-754-21	Reflectorized Delineators
D-704-13	Barricade And Channelizing Device Details	D-754-22A	Typical Interchange Delineation
D-704-14	Construction Sign Punching And Mounting Details	D-754-22B	Typical Rest Area Delineation
D-704-15	Road Closure Layouts	D-754-23	Perforated Tube Assembly Details
D-704-17	Sign Layout For One Lane Closure Two Lane Roadway	D-754-24, 25	Mounting Details Perforated Tube
D-704-21	Detour And Roadway Diversion Sign Layouts	D-754-24A	Breakaway Coupler System For Perf
D-704-22	Construction Truck And Temporary Detour Layouts	D-754-32	Sign Punching, Stringer And Support
D-704-26	Miscellaneous Sign Layouts		Signs
D-704-27	Traffic Control Plan For Moving Operations	D-754-49	Sign Punching, Stringer And Support
D-704-35	Sign Layout For One Lane Closure - Interstate System	D-754-83	Object Markers - Culverts
D-704-38, 39	Traffic Control System-Median Crossover (800 Ft Transition)-55 Mph Speed Limit Or	D-760-1	Rumble Strips Interstate Highways
	Greater	D-762-2	Interstate Pavement Marking 4 Lane
D-704-45	Construction Signing Median Crossover	D-762-4	Pavement Marking
D-704-50	Portable Sign Support Assembly	D-762-11	Short-Term Pavement Marking
D-704-51	Portable Precast Concrete Median Barrier (Temporary Usage)	D-764-1	W-Beam Guardrail General Details
D-704-56	Mobile Operation - Grinding Shoulder Rumble Strips	D-764-5	Sequential Kinking Terminal
D-706-1	Bituminous Laboratory	D-764-6	Flared Energy Absorbing Terminal
D-708-6	Erosion And Siltation Controls - Median Or Ditch Inlet Protection	D-764-10	Thrie Beam Transition To Double Bo
D-714-1	Reinforced Concrete Pipe Culverts And End Sections (Round Pipe)	D-764-38	MGS Flared Energy Absorbing Term
D-714-22	Concrete Pipe Or Precast Concrete Box Culvert Ties	D-764-40	MGS W-Beam Guardrail General De
D-714-25	Transverse Mainline Pipe Installation Detail for Pipes More Than 4 Feet Below Top of	D-764-48	Typical Grading at Bridge Ends with
	the Proposed Subgrade	D-764-50	MASH SoftStop End Terminal - Stee
D-714-25M	Transverse Mainline Pipe Installation Detail for Multiple Pipes More Than 4 Feet Below	D-764-51	MASH Sequential Kinking Terminal -
D 714 00	the Top of Subgrade Transverse Meinline Dine Installation Dateil for Dines 4 Fast or Less Below Ten of the	D-764-60	MGS W-Beam Transition with Appro
D-714-20	Proposed Subgrade	D 704 04	Barrier
D-714-26M	Transverse Mainline Pipe Installation Detail for Multiple Pipes 4 Feet or Less Below Top	D-764-61	Single Slope to Infle Beam Connect
	of Subgrade	D-900-1	bridge Berich Marks
D-714-27M	Pipe Installation Detail for Multiple Longitudinal Mainline Pipe or Pipe Not Under Roadway		

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Way Markers

- ndard Pipe Stub Post be - Stub Post
- for Standard Pipe Stub Post
- lation Details For Standard Pipe
- tails
- le Length Signs
- ural Details For W-Shape Supports
- s For W-Shape Supports
- r W-Shape Supports
- sts

forated Tubes rt Location Details Regulatory, Warning, And Guide

rt Location Details For Variable Length Signs

e Divided Highway

ox Beam Retrofit ninal - Wood Post etails MGS W-Beam Guardrail el Post - Wood Post oach Curb to Concrete Single Slope or Jersey

tor Plate Details

## **NOTES**

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- Christine Interchange
- Walcott Interchange
- Colfax Interchange

Clear and strip the storage site of topsoil prior to placement of the excess excavation. Blend the excess excavation into the existing terrain creating a traversable surface as approved by the Engineer in the field. Do not place material in wetlands or change existing drainage patterns. Restore topsoil, seed and mulch the stockpile upon approval of the grading by the Engineer in the field. Include all costs for clearing and grubbing, hauling, placing and grading of excess excavation and restoration of the stockpile site in the price bid for "Reshaping Roadway". Topsoil stripping and seeding quantities will be paid for separately at unit prices bid.

- 251-P01 FERTILIZER: After placing topsoil, but prior to seeding, place fertilizer that meets the requirements of Section 251.03 G, "Fertilizer". Do not place fertilizer in wetlands. Include all costs associated with the placement of fertilizer in the price bid for "Seeding Class II".
- 253-P01 HYDRAULIC MULCH: Delete section 253.04 B.2 of the Standard Specifications in its entirety.
- 261-P01 PERMANENT FIBER ROLLS: If fiber rolls are to remain on the project, use fiber rolls that are composed of netting that meets either of the following:

Plastic or natural fiber photodegradable netting that has a life expectancy between 12 to 24 months. If the photodegradable netting is plastic, the netting color must be either clear or green. Black plastic netting will not be allowed.

100 percent biodegradable jute netting that has a life expectancy between 6 to 12 months.

- 302-P01 SALVAGED BASE COURSE: Surface tolerance for the salvaged base course will be in accordance with 302.04 C.2, Surface Tolerance Type C, for all areas beneath the 8.5" Non-Reinf Concrete Pavement CL AE Doweled (i.e. mainline pavement, inside shoulder, and ramp gore area). Surface tolerance for the salvaged base course will be in accordance with 302.04 C.1, Surface Tolerance Type B, for the 8' outside shoulder and ramp areas. Reincorporate excess material removed from high points of the base course by the trimming operation into the base course.
- 302-P02 SALVAGED BASE COURSE FOR SUBCUT REPAIRS: Aggregate meeting the requirement of Class 3 or Class 5 specified in Section 816.02, "Miscellaneous Aggregates" may be used if no salvage based material is available at the time subcuts are filled. Aggregate used in subcut repairs is subject to the requirements of 302.04 B. Aggregate used in subcut repairs will be paid for at the contract unit price for "Salvaged Base Course" regardless of the class of material used.
- 302-P03 SALVAGED BASE COURSE: Incorporate all salvaged concrete and HBP material into the salvaged base course. Utilize recycled HBP or virgin aggregate for any additional material required for the salvaged base course.
- 302-P04 HAULING: The finished aggregate shoulder of southbound I-29 can't be used as a haul route. Do not drive on the base course and/or geosynthetic material while placing concrete, except when the haul vehicle is dumping. When dumping, the haul vehicle is allowed to drive on the base course in the immediate vicinity of where the load is dumped. Re-establish

subgrade surface tolerance per contract base course.

- 401-P01 TRIMMING AND PRIME: Prime shoulder operations unless HBP paving is to take
- 430-P01 HMA DENSITY CONTROL: Compact HI Alternative B is selected 'Concrete Media asphalt shoulder will be compacted in act

430-P02 MAINTENANCE OF TRAVELED ROAD will be fully responsible for monitoring the ramp connections within the limits of the

> Patch with an approved mix, in a reasona than one inch from the adjacent pavemer directed by the engineer. Compact HMA Standard Specifications. Include all cost asphalt cement in the unit price bid for "P minimizes disruption to traffic. Necessary under the normal contract bid item. Addii initial inspection of the roadway, used by make all repairs in accordance with the a A quantity of 500 Tons of "Patching" has

- 550-P01 CONCRETE PAVEMENT: The developm B, "Mix Design" will not be required.
- 550-P02 CONCRETE PAVEMENT: The Departme reinforcing steel, tie bars and dowel bar a paving operation as stated in Sections 55 roadway as a haul road at the Contractor
  - Repair all damaged areas
  - Provide an additional trimmer in adva
  - Construct the finished surface to with pass of trimming equipment.
    - Construct the finished surface to the reinforcing steel, tie bars and dowel I
    - Place the reinforcing steel and tie ba accurately in advancing of the paving
- 704-100 TRAFFIC CONTROL SUPERVISOR: Pro
- 704-200 PRECAST CONCRETE MEDIAN BARRI FURNISHED: Obtain 79 barriers from the 2160+00 Lt. After project completion retu abandoned rest area located at Sta 2160

Some 4 inch x 4 inch boards are available Provide any additional 4 inch x 4 inch boards barriers. The boards will become property

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req	requirements prior to placement of the salvaged					
rs within one mile or within 48 hours of the trimming place within 24 hours of trimming.						
MA an S cor	MA paving in accordance with Section 430.04 I.3. If an Shoulder W/ 8' Asphalt Outside Shoulder', the cordance with Section 430.04 I.2.					
WA e co pro	Y USII onditio ject.	NG HOT MIX ASPH n of the traveled roa	IALT: The co adway, cross	ontracto overs a	or nd	
able nt, a in t of Pato y tra ition y the abov be	e time any ru accore equipr ching". affic co hally, t e trave ve req en pro	frame, any areas th tting, sponginess ar dance with Section ment, labor, and ma Provide a traffic co ontrol devices and fl he contractor will be eling public before co uirements or as dire ovided for this purpo	at have subs nd/or breakup 430.04 I.3 of terials, includ ntrol plan tha agging will be e required to onstruction b ected by the l se.	sided m os as the ding at e paid for perform egins, a Enginee	ore or and er.	
nen	t of a i	maturity curve spec	ified in Sectio	on 550.(	)4	
ent ass 50.( rs re	will wa emblie 04 E.1 eques	aive the requiremen es a minimum of 2,0 and 550.04 G.2 an t, provided the follow	t to place the 00 feet ahea d allow the u wing conditio	e d of the se of th ns are r	e net:	
anc hin	e of th 0.10 fe	ne paving operation. eet of the proposed	elevation wit	h the fir	st	
spo bar ars o g o	specified surface tolerance prior to the placement of bar assemblies. Irs on approved supports securely, properly and g operation.					
ovic	de a Ti	raffic Control Super	visor.			
IER e re urn l 0+0	S – S est are barrier 0 Lt.	TATE a located at Sta 's to the	This documer issued and Matt Registrati	nt was ori d sealed Lange, on Numb	ginally by er	
le a ard ty of	t the res s nece f the D	eturn location. essary to stack Department.	PE- on 11/08/17 a document is North Dakot of Trans	6870, and the or stored a a Departi sportation	riginal t the ment	

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nent marking hbound I-29 nent marking ers in prepar narkers and d ramp gore	g and in pre g and ration deline areas	install new tempora eparation for Phase install raised paven for Phase 3. eators at existing ra along southbound	ry traffic cont 3. nent markers mp connectio I-29 in prepa	trol strip on the ons insid ration fo	bing de or
, implement imp connect ound I-29. I-29. orthbound I-	ing he tions a -29 wi	ead to head traffic of and median crossov Il not be permitted p	n northbound ers for the prior to April 1	I I-29. , 2018.	
f northboun drail, end ter 59R) and W connection p connectio constructior	d and rminal ′ild Rid s insta กร wit า	southbound I-29. s, and guardrail wid ce River (west side alled within the inter hin the interstate m	ening at Pitc of 0029-041. state median edian in prep	airn Cre 629R). I. aration	ek for
of southbo	und I-:	29. Close the outsic	le lane of nor	thboun	d I-
he Colfax In Richland Co	tercha unty R	ange (RP 37.043) e: toad 4 crossroad at	xit and entrar the Colfax Ir	nce ram nterchar	ps. Ige
l crack seali ps. Richland Cou 12.117).	ng of unty R	the Walcott Intercha	ange (RP 42. the Walcott	169) ex	it
ry ramp con	nectic	ons within the gore a	areas of each	1	
nain open to traffic during construction. Irrmed in stages with traffic being switched between the left the ramps. Work on the ramps will not begin until after is re-opened to traffic and temporary ramp connections within lian have been removed and re-constructed for future econstruction.					
ry guardrail, of 0029-034	end t .359R	erminals, and guard ) and Wild Rice	drail widening	at Pitc	airn
ramp conne erchange in econstructic	ctions prepa on.	within the gore ration for future	This documer issued an Matt Registrati	nt was orig d sealed Lange, on Numb	ginally by er
ECK REPLA leck can be using with the	CEMI replac e exce	ENT: The concurrently eption of phase 5.	PE- On 11/08/17 a document is North Dakot	6870, and the o s stored a a Departr	riginal t the ment

of Transportation

## <u>NOTES</u>

Include the cost for boards in the contract unit price for "Precast Concrete Median Barrier - State Furnished".

704-300 FLASHING BEACON: Provide solar powered flashing beacons that meet the requirements of the MUTCD and ITE. Provide beacons that are visible for a distance of 0.25 miles (1,320 feet) and are capable of operating for 20 days without a solar charge.

Include all costs for materials, equipment, labor, and incidentals in the contract unit price for "Flashing Beacon".

704-301 SEQUENCING ARROW PANEL – TYPE C – CROSSOVER: Provide solar powered arrow panels that meet the requirements of the MUTCD and ITE and that are capable of operating for 20 days without a solar charge.

Include all costs for materials, equipment, labor, and incidentals in the contract unit price for "Sequencing Arrow Panel – Type C – Crossover".

704-P01 TRAFFIC CONTROL DEVICES: The traffic control devices list for each phase has been developed using traffic control signing layouts (shown in Section 100 of the plans) and Standard Drawings as listed below:

D-704-01:	Attenuation Device
D-704-05, 7, 8, 9, 10, 11:	Are applicable.
D-704-12, 13, 14, 15, 17,21:	Are applicable.
D-704-22:	Type K and L for construction trucks hauling material.
D-704-26:	Type CC, EE, and GG for milling and paving operations on
	the Colfax and Walcott ramps and crossroads as needed.
D-704-27:	Mobile operations.
D-704-35:	One lane closure on Interstate.
D-704-38, 39:	Median crossovers.
D-704-45:	Construction traffic median crossovers.
D-704-50:	Portable sign support assemblies.
D-704-51:	Portable precast concrete median barriers.
D-704-56:	Grinding shoulder rumble strips.

704-P02 TRAFFIC CONTROL PHASING: The traffic control details, as indicated on the plans, have been developed based on the premise that this project will be constructed in 5 phases. The traffic control device lists include the required number of devices for each phase of each described work area. The Contractor is responsible for removing and resetting devices for each phase of construction. The costs associated with removing and resetting traffic control devices is included in the price bid for other items.

The construction phasing plan is as listed below. Only one phase may be active at a time.

Phase 1: Close the outside lane of northbound I-29.

• Install W-beam guardrail and end terminal at Pitcairn Creek (east side of 0029-034.359R) and Wild Rice River (east side of 0029-041.629R).

<u>Phase 2</u>: Close the inside lane of northbound I-29.

 Install temporary w-beam guardrail, end terminals, and guardrail widening at Pitcairn Creek (west side of 0029-034.359R) and Wild Rice River (west side of 0029-041.629R).

- Obliterate existing pavement man on the inside lane of northbound
- Obliterate existing pavement man existing median crossovers in pre-
- Install raised pavement markers a the interstate median and ramp g Phase 3.

Phase 3: Close southbound I-29, implem

- Activate the temporary ramp con reconstruction of southbound I-29
- Reconstruct southbound I-29.

Head to head traffic on northbour

- Phase 4: Close the inside lane of northbo
   Remove temporary guardrail, end
- (west side of 0029-034.359R) and
- Remove temporary ramp connect
- Construct temporary ramp connect future northbound I-29 reconstruct

Phase 5: Close the outside lane of south 29.

- Southbound I-29
  - Mill & overlay of the Colfa
     Mill & overlay of Richland (RP 37.043).
  - Mill & overlay and crack s and entrance ramps.
  - Mill & overlay of Richland Interchange (RP 42.117).
  - Remove temporary ramp interchange.
  - The ramps will remain op
  - Work will be performed in and right sides of the ramp southbound I-29 is re-ope the interstate median have northbound I-29 reconstru
- Northbound I-29
  - Remove temporary guard Creek (east side of 0029-River (east side of 0029-0
  - Install temporary ramp co areas of each interchange northbound I-29 reconstru
- 704-P03 CHRISTINE INTERCHANGE DECK REPLACEMENT: The Christine interchange concrete deck can be replaced concurrently with any of the traffic control phasing with the exception of phase The detour layout in Section 100 depicts the deck being replaced

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e advance sign; and routes, state and US highways, and Interstate Ramps). veen the shoulder and the driving lane is 2" or greater, lane that is 4:1 or flatter. If the difference in elevation g lane is less than 2", no slough is required. In and paid for according to Section 704 "Temporary Traffic					
AL: Obliterate the centerline and edge lines as shown in ndard Drawings D-704-38 and D-704-39. At the interchange centerline and edge lines as shown in Section 100 of the nent markings on the southbound roadway will be accepted. will be paid by the square foot removed. Include the cost of r, including the removal of sheeting, if used, in the price bid rking."					
Supply an A nit price for a lab testing	ggreg "Aggr equip	ate Laboratory with egate Laboratory." ment.	a printer/cop The NDDOT	y mach Fargo	ine.
f Alternative y a Bituming nit price for	e B is s ous La "Bitur	elected 'Concrete N boratory with a prin ninous Laboratory."	/ledian Shou ter/copy mac	lder W/ chine.	8'
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nimum of 450 square feet. d weekly cleaning services. minimum) 0 foot- candles) IDDOT to pay for phone service) ter hookups with potable water to be furnished by v utility bills. of 32 cubic feet. of 40 square feet. rusions so that it will accommodate NDDOT furnished office					
e shall be or ny rental feo able for occ	n, or a es sha upanc	s close to the project Il be paid by Contra y at the start of	ct as possible actor.	e and	
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## <u>NOTES</u>

during phase 3. Adjust the detour traffic control to accommodate the appropriate phase.

704-P04 INTERCHANGE RAMP CONNECTIONS: During the period that the mainline pavement being utilized for temporary ramp connections is being reconstructed, route the public traffic using the ramps around the paving area as shown in Section 100 of the plans. The proposed interstate and ramp paving must be complete and fully cured to prevent the need for temporary paving. Traffic then may use the new ramp for access to the interchange. Include all costs associated with temporary embankment and aggregate surfacing within the median and shifting traffic control to accommodate paving operations in the price bid for other items.

704-P05 TUBULAR MARKERS: Salvage existing triple-weighted tubular markers located at existing median crossovers and ramp connections. Immediately reset triple-weighted tubular markers at 5' spacing at all locations shown in Section 100 after completion of southbound I-29 reconstruction and the construction of the new temporary ramp connections in preparation for future northbound I-29 reconstruction. Add weight, as necessary, to triple-weighted tubular markers to achieve a minimum weight of 36 lbs. There are 280 tubular markers onsite for salvaging. Include costs for providing the additional 307 weighted tubular markers in the price bid for "Tubular Markers".

The triple-weighted tubular markers will remain property of the state at the completion of the project. Include all cost for removing and resetting tubular markers in the unit price bid for "Tubular Markers."

704-P06 TRAFFIC CONTROL FOR HMA OVERLAYS: Provide traffic control consisting of a temporary lane closure and flagging.

The maximum work zone length is limited to one day's production.

For estimating purposes, the traffic control device list is based on the following list:

- 1. Standard D-704-22, Types K and L;
- 2. Standard D-704-26, Types CC, EE, and GG; and
- 3. Standard D-704-35.

If all or portions of the lane closure are removed and uneven lanes exist, provide traffic control as specified in Section 704.04 O, "Traffic Control for Uneven Pavement".

Complete work in a manner such that lane closures can safely be removed if no work is to take place for more than 3 consecutive days. Remove lane closures if no work is to take place for more than 3 consecutive days.

The Department will pay for all necessary deployed devices, regardless of the number and length of the lane closures.

704-P07 TRAFFIC CONTROL FOR SHOULDER DROP-OFF: During Phase 5, when constructing the temporary ramp connections within the gore area, if the shoulder and adjacent driving lane are not even at the end of the day, the following criteria will apply:

Place the following sign assembly at the locations listed below.

Sign Assembly: Sign No. W8-9a-48 "Shoulder Drop Off" and supplemental plate Sign No. W20-52-54 to identify the distance.

Locations:

- In advance of the drop off;
- Spaced at each mile from the advan
- At major intersections (CMC routes, s

If the difference in elevation between the construct a slough on the driving lane that between the shoulder and driving lane is Sign assemblies will be measured and p Control".

704-P08 PAVEMENT MARKING REMOVAL: Obli Section 100 of the plans and Standard D ramp connections, obliterate the centerlin plans. Masking of existing pavement ma The obliteration of the markings will be p all equipment, material, and labor, includ for "Obliteration of Pavement Marking."

706-P01 AGGREGATE LABORATORY: Supply a Include the cost in the contract unit price district will provide the aggregate lab tes

706-P02 BITUMINOUS LABORATORY: If Alterna Asphalt Outside Shoulder' supply a Bitur Include the cost in the contract unit price

- 706-P03 FIELD OFFICE: Provide a field office wh
  - 1. The field office shall be a minimum of
  - 2. Indoor bathroom facilities and weekly
  - 3. Air conditioner (20,000 BTU minimum
  - 4. Lighting (lumens required 110 foot- ca
  - 5. Minimum of 3 phone jacks (NDDOT t
  - 6. Heat, electric, sewer, and water hool Contractor, Contractor to pay utility b
  - 7. Cabinet space of a minimum of 32 c
  - 8. Counter space of a minimum of 40 se
  - 9. The floor is to be free of protrusions s equipment.
  - 10. The location of the field office shall b approved by the Engineer. Any renta
  - 11. The field office shall be available for the project and remain available to project and pr
  - 12. The following services will be furnish NDDOT and requested through the V System:
    - a. Telephone
    - b. Broadband internet service including

## NOTES

13. Photocopy/printer with scanning capabilities capable of 8.5x11 and 11x17 photocopies and toner to last the duration of the project. Other features to include digital copying, scanning, and USB port on the Copier/Printer. Copier/Printer machine with operating software compatible with that used by the NDDOT. A 12' printer cable is required.

All requirements of the Field Office are subject to approval by the Engineer. Include all costs associated with the field office in the price bid for "Field Office."

Schedule for Payments:

- 25% when set up on site
- 50% when 30% of work is complete
- 75% when 60% of work is complete
- 100% when project is complete
- INSTALL CONCRETE PIPE TIES: Expose and tie all centerline culverts within the project 714-P01 limits. Include all costs associated with exposing the centerline culverts, placing type S2 geotextile fabric over the joints and tying all concrete joints in the unit price bid for "Install Concrete Pipe Ties". Tie RCP in accordance with D-714-22. Backfill pipe in accordance with Section 714 of the Standard Specifications.

Pipe that has separated will be relayed at the discretion of the field Engineer. A discretionary guantity of 200 LF of "Remove & Relay Pipe-All Types & Sizes" has been provided in the plans. Place bedding for relayed pipe in accordance with Standard Drawing D-714-25. D-714-25M, D-714-26 or D-714-26M.

Pipe sections deemed unsalvageable will be replaced at the discretion of the field Engineer. Discretionary quantities of 100 LF of Pipe Conc Reinf 24 IN, 50 LF of Pipe Conc Reinf 30 IN, 50 LF of Pipe Conc Reinf 36 IN and 1000 SY of Geotextile Fabric – Type R1 have been provided in the plans. Payment for replacing unsalvageable pipe will be included in the price bid for "Pipe Conc Reinf \_In CL III".

- 714-P02 REMOVE & RELAY PIPE-ALL TYPES & SIZES: Include all costs associated with removing and relaying the existing 48" RCP T-Section, 24" RCP riser and existing pipe sections at Sta 305+44 (RC 42 N SER) in the bid price for "Remove & Relay Pipe-All Types & Sizes".
- 714-P03 PVC PIPE: Provide PVC pipe material that meets the requirements of Section 830.03 A.3.
- 714-P04 RELAY PIPE-ALL TYPES & SIZES: Include all costs associated with removing and relaying PVC pipes at ramp connections in the unit price bid for "Relay Pipe – All Types & Sizes".
- 722-P01 RELAY PRECAST CONCRETE MEDIAN DRAIN: Include all costs associated with relaying and installing the precast concrete median drain at Sta 305+44 (RC 42 N SER) in the bid price for "Relay Precast Concrete Median Drain".
- 722-P02 CASTING MOUNTABLE CURB-TYPE A: Remove and replace existing inlet castings at designated locations on grade separations with a new Type A mountable curb casting and grates. Include all costs for removal and disposal of the existing curb inlet castings and grates, and for furnishing and installing the new mountable Type A castings and grates in the price bid for the item "Casting Mountable Curb - Type A."
- 748-P01 CURB & GUTTER TYPE 1 SPECIAL: Fifteen lineal feet of curb and gutter is required along each side of the roadway at the ends of the bridge approach slabs, at the Christine

Interchange Crossroad, RP 44.126. The curb and gutter shall be Type 1 as shown on Standard Drawing D-748-1, except the last 2 feet of curb and gutter, at the end nearest the approach slab, will be transitioned to match the shape of the single slope barrier and the end of the curb furthest from the bridge approach slab shall be tapered from a 6" curb height to 0" curb height in 3 feet, as shown on Standard Drawing D-764-60. All costs for constructing the curb and gutter as described above, shall be included in the price bid for "Curb & Gutter -Type 1 Special."

- 754-P01 2160+00 Lt for the future northbound reconstruction project.
- 754-P02 REMOVED CONCRETE FOUNDATIONS: Remove existing concrete foundations or obliterate to a minimum 3-foot depth below proposed finished grade.

754-P03 REMOVED SIGNING: Remove and dispose of all existing telescoping perforated tube, wshape post supports, yellow faced signs and extruded aluminum sign panels. Deliver the existing round pipe supports to the Fargo District sign shop at 503 38th St South, Fargo. Contact the Fargo District sign shop 24 hours prior to delivery at (701) 239-8900. Include all costs associated with the removal and delivery of the sign panels and supports in the price bid for the item "Remove Sign Foundation".

762-050 the measurement for payment for pavement marking items.

762-P01 RAISED PAVEMENT MARKERS: Place raised pavement markers on the centerline of the two-lane two-way roadway. Place the markers in pairs, 4 inches apart, spaced at 5 feet along the centerline. Place raised pavement markers on the median crossovers and ramp connections at 5' spacings. Place the markers as per Standard Drawings 704-38 & 704-39 and as per Section 100. Provide Stimsonite No. 66, Flex-O-Lite, RCM construction marker, or equal. Clean the raised pavement markers when necessary to retain reflectivity. At completion of the project, remove the markers in accordance with the manufacturer's recommendations and when removed, take care to have the adhesive pad removed down as close as possible to the pavement using a mechanical scraper such as a loader-type machine with a bucket. The raised pavement markers will be measured by the number complete in place and accepted by the Engineer.

> Include the cost of furnishing, installing, maintaining, and removing in the price bid for "Raised Pavement Markers.'

764-P01 W-BEAM GUARDRAIL: The W-beam guardrail materials on SB I29 at the Pitcarin Creek Bridge, Wild Rice River Bridge and the Christine Interchange Bridge are scheduled to be removed and reset under phase 3 of the traffic control phasing plan. Reset an assumed 75% of existing guardrail as directed by the Engineer. Deliver the remaining guardrail materials deemed salvageable by the Engineer to the NDDOT Maintenance Storage Yard located at 503 38th St South, Fargo and neatly stack at the location in the storage yard. Notify the NDDOT Maintenance Storage Yard 24 hours prior to delivery at (701) 239-8900. Include all costs to

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DELINEATOR: Approximately 7 delineator posts may need to be removed to accommodate the temporary ramp connections on this project. Include all cost to remove and reset any delineator posts in the price bid for other items. After northbound and southbound traffic has been restored, stockpile delineators required for head to head traffic at the rest area at Sta

PAVEMENT MARKING: If the Engineer and Contractor agree, plan quantity will be used as

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remove and deliver temporary guardrail material in the price bid for the removal of guardrail items. Quantities for the End Treatment & Transition and the additional W-Beam Guardrail have been provided.

764-P02 W-BEAM GUARDRAIL END TERMINALS FOR TWO-WAY TRAFFIC: The W-beam guardrail end terminals and additional guardrail materials required for two-way traffic are scheduled to be removed under phase 4 and 5 of the traffic control phasing plan. Delivered the guardrail materials to the NDDOT Maintenance Storage Yard located at 503 38th St South, Fargo and neatly stack at the location in the storage yard. Notify the NDDOT Maintenance Storage Yard 24 hours prior to delivery at (701) 239-8900.

> The W-beam guardrail end terminals will be measured and paid for by the number of Wbeam guardrail end terminals required and accepted by the engineer. Include all costs associated with materials, including W-Beam terminal connector and W-beam rail sections, and all necessary posts, blocks, hardware, equipment, and labor in the unit price bid for "W-Beam Guardrail End Terminal". Include all costs to remove and deliver temporary guardrail material in the price bid for "W-Beam Guardrail End Terminal".

- 764-P03 REMOVE CONCRETE SAFETY SHAPE TRANSITION: This item consists of removing the concrete safety shape transitions at the corners of the Christine Interchange, RP 44.126. Each safety shape transition is 13'-7" in length and is constructed of approximately 2.1 cubic yards of reinforced concrete. The bottom of the safety shape transitions is approximately 2 feet below the finished surface. Saw cutting may be required to separate the safety shape transitions from the adjacent concrete bridge barrier that is to remain in place. The removed safety shape transitions is the property of the contractor. Repair any damage to the bridge ends that are to remain in place resulting from removal of the concrete safety shape transitions. Include costs to repair any damage in the unit price bid for "Remove Concrete Safety Shape". The item "Remove Concrete Safety Shape Transition" will be paid for by the number of safety shape transitions removed.
- 764-P04 GUARDRAIL EMBANKMENT: The embankment material required for guardrail installation may be obtained from the excess material removed from the I-29 grading, with the approval of the Engineer.
- 990-P01 PIPE CLEANOUT: Remove any silt or debris encountered in the centerline culverts. A discretionary quantity of 12 EA has been provided in the plans. Include costs associated with removing the silt or debris in the price bid for "Pipe Cleanout".

STATE

PROJECT NO.

ND	IM-8-029(170)	)033	6	6
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SECTION

SHEET

#### ESTIMATE OF QUANTITIES

163         0100         CONTRACT BOND         L SUM         1           201         030         CLEARING & GRUBBING         L SUM         1           202         0101         REMOVAL OF CONCRETE         EA         1           202         0130         REMOVAL OF CONCRETE         L SUM         1           202         0130         REMOVAL OF CONCRETE         L SUM         1           202         0130         REMOVAL OF CONCRETE         L SUM         1           202         0136         REMOVAL OF PAVEMENT         TON         153,454           202         0136         REMOVAL OF PAVEMENT         TON         153,454           202         0237         REMOVAL OF PENDART CONCRETE         EA         5           203         0138         COMMON EXCAVTION-SUBCUT         CY         1,561           203         0138         COMMON EXCAVATION-SUBCUT         CY         1,561           203         0138         COMMON EXCAVATION-SUBCUT         CY         1,561           203         0100         PORDARL EMBARMENT         EA         1           210         0200         FOUNDATION FILL         EA         1           210         0306 <t< th=""><th>SPEC</th><th>CODE</th><th>ITEM DESCRIPTION</th><th>UNIT</th><th>TOTAL</th></t<>	SPEC	CODE	ITEM DESCRIPTION	UNIT	TOTAL
201         0330         CLEARING & GRUBBING         L SUM         1           202         0101         REMOVAL OF CONCRETE         L SUM         7.8           202         0131         REMOVAL OF CONCRETE         L SUM         7.8           202         0132         REMOVAL OF CURRE SCITTER         C         7.8           202         0132         REMOVAL OF FAURHENT         TON         133,454           202         0132         REMOVAL OF PROPENDENT         TON         133,454           202         0132         REMOVAL OF PROPENDENT         TON         133,454           202         0132         REMOVAL OF PREALT TYPES AN DISCIPSE         EA         5           203         0132         REMOVAL OF TEMPGRAY BYPASS         EA         5           203         0130         COMMON EXCAVATION-SUBCUT         CY         75,173           203         0130         COMMON EXCAVATION SUBCUT         CY         30           210         0405         FOUNDATION PREPARTION-BOX CULVERT         KA         1           210         0405         FOUNDATION PREPARTION-BOX CULVERT         KA         1           220         0100         PREPARATION-TYPE C-121N         ST         1 <td>103</td> <td>0100</td> <td>CONTRACT BOND</td> <td>L SUM</td> <td>1</td>	103	0100	CONTRACT BOND	L SUM	1
222         0101         REMOVAL OF CONCRETE         EA         1           222         0113         REMOVAL OF CONCRETE         C/         73.03           222         0133         REMOVAL OF CONCRETE         C/         73.04           222         0133         REMOVAL OF CONCRETE         C/         75.02           222         0136         REMOVAL OF PAYEMENT         TON         133.454           222         0137         REMOVAL OF PAYEMENT         TON         133.454           222         0137         REMOVAL OF PAYEMENT CONCRETE         EA         132           222         0137         REMOVAL OF PAYEMENT CONCRETE         EA         132           223         0130         COMMONE EXASTING FENCE         EA         153           223         0138         COMMONE EXASTING FENCE         EA         1           233         02	201	0330	CLEARING & GRUBBING	L SUM	1
202         0111         REMOVAL OF CONCRETE         L SUM         1           202         0130         REMOVAL OF CONCRETE         CV         73.3           202         0130         REMOVAL OF CONCRETE         CV         73.3           202         0130         REMOVAL OF CONCRETE         CF         95.0           202         0130         REMOVAL OF CONCRETE         CF         93.2           202         0174         REMOVAL OF CONCRETE         EA         1           202         0237         REMOVAL OF CONCRETE         EA         1           202         0330         REMOVAL OF CONCRETE         EA         1           202         0330         REMOVAL OF CONCRETE         EA         1           202         0330         REMOVAL OF CONCRETE         EA         1           203         0310         REMOVAL OF CONCRETE         EA         1           204         0330         REMOVAL OF CONCRETE         EA         1           201         0051         BOX CULVERT EXCAVATION - SITE 1         EA         1           2010         OD51         BOX CULVERT EXCAVATION - SITE 1         EA         1           2010         OD00         REPROVA	202	0101	REMOVAL OF CONCRETE	EA	1
202         0113         REMOVAL OF CONCRETE         CY         75.8           202         0133         REMOVAL OF BUTMINOUS SURFACING         SY         15.024           203         0133         REMOVAL OF BUTMINOUS SURFACING         SY         15.024           202         0174         REMOVAL OF PIPE ALL TYPES AND SIZES         LF         332           202         0174         REMOVAL OF PIPE ALL TYPES AND SIZES         LF         9.139           202         0312         REMOVAL OF TENDRARY BYPASS         EA         4           203         0130         REMOVAL OF TENDRARY BYPASS         EA         5           203         0130         COMMORIZ CONTING FERCE         LF         9.139           203         0130         COMMORIZ CONTING FERCE         LF         4           203         0130         COMMORIZ CONTING FERCE         LF         4           210         0405         FOUNDARIL ENBARMEENT         CA         1           210         0405         FOUNDARIL ENBARMEENT         EA         1           210         0405         FOUNDARIL ENBARMEENT         EA         1           210         0405         FOUNDARIL ENBARMEENT         EA         1	202	0111	REMOVAL OF CONCRETE	L SUM	1
202         0130         REMOVAL OF GUUNDUS SURFACING         IF         5604           202         0130         REMOVAL OF PAVEMENT         TON         113344           202         0136         REMOVAL OF PAVEMENT         TON         113344           202         0136         REMOVAL OF PAVEMENT         TON         113444           202         0137         REMOVAL OF TRUE ON TYPES AND STATE         EA         51           202         0130         REMOVAL OF TRUE ON TYPES AND STATE         EA         5           203         0130         TOPSOIL         CY         75.173           203         0138         COMMON EXCAVATION-SUBCUT         CY         1.561           203         0138         COMMON EXCAVATION-SUBCUT         CY         1.561           203         0130         COMMON EXCAVATION-SUBCUT         EA         1           210         0405         FOUNDATION FILL         EA         1           211         0405         FOUNDATION FILL         EA         1           220         0100         WATER         MGAL         3.433           220         0200         RESHAPING ROADWAY         MILE         1.222           221         0200<	202	0113	REMOVAL OF CONCRETE	CY	73.8
222         0132         REMOVAL OF BATUMINOUS SURPACING         \$Y         15.024           222         0169         REMOVAL OF FANDERT LITYPES & 32ES         EA         58           222         0212         REMOVAL OF FANDERCAST CONCRETE         EA         58           222         0212         REMOVAL OF ENDERCIONAL TYPES & 32ES         EA         58           222         0212         REMOVE EXISTING FENCE         LF         9.139           202         0312         REMOVE EXISTING FENCE         LF         9.139           203         0169         TOPSOIL         CY         75.173           203         0169         TOPSOIL         CY         75.173           203         0169         EQUADRAL EMANMENT         EA         10           210         0405         FOUNDATION PERPARATONADA SITE 1         EA         1           210         0405         FOUNDATION PERPARATONADAS CULVERT         KA         1           220         0200         RESTORE STOCKPILE SITE         L         SUM         1           220         0200         RESTORE STOCKPILE SITE         L         SUM         1           2210         0200         REMOROADAVE         RESTORE STOCKPILE SITE <td>202</td> <td>0130</td> <td>REMOVAL OF CURB &amp; GUTTER</td> <td>LF</td> <td>560</td>	202	0130	REMOVAL OF CURB & GUTTER	LF	560
202         0136         REMOVAL OF PAVEMENT         TON         133,454           202         0137         REMOVAL OF PIPE ALL TYPES AND SIZES         EA         58           202         0132         REMOVAL OF PIPE ALL TYPES AND SIZES         EA         58           202         0131         REMOVAL OF TEMPORARY BYPASS         EA         57           203         0138         COMMON EXCAVATION-SUBCUT         CY         75,173           203         0138         COMMON EXCAVATION-SUBCUT         CY         75,173           203         0138         COMMON EXCAVATION - SITE 1         EA         10           210         0051         BOX CULVERT EXCAVATION - SITE 2         EA         10           210         0056         BOX CULVERT EXCAVATION - SITE 2         EA         10           220         0100         PREPARE STOCKPILE SITE         L SUM         1           220         0100         RESHAPING ROADWAY         MILE         12/22           2000         SEEDING CLASS II         ACRE         100.8           220         0200         SEEDING CLASS II         ACRE         100.8           220         0200         SEEDING COLER CROP         ACRE         100.8	202	0132	REMOVAL OF BITUMINOUS SURFACING	SY	15,024
202         0169         REMOVAL OF PREALT YPES A SIZES         EA         58           202         0174         REMOVAL OF MEDIAN DRAIN PRECAST CONCRETE         EA         16           202         0130         REMOVAL OF MEDIAN DRAIN PRECAST CONCRETE         EA         16           202         0130         TOPSOIL         CONCRETE         EA         16           203         0138         COMMON EXCAVATION-SUBECUT         CY         15.61           203         0138         COMMON EXCAVATION-SUBECUT         EA         1           210         0051         BOX CULVERT EXCAVATION - SITE 1         EA         1           210         0051         BOX CULVERT EXCAVATION - SITE 2         EA         1           210         0051         BOX CULVERT EXCAVATION - SITE 2         EA         1           210         0100         PREPARATION-RED X CULVERT         EA         1           220         0100         PREPARE STOCKPILE SITE         L         SUM         14.53           220         0200         RESTORE STOCKPILE SITE         L         SUM         14.52           221         0200         SUBGRADE PREPARATION-TYPE C-121N         MLE         12.22           200         0320 <td>202</td> <td>0136</td> <td>REMOVAL OF PAVEMENT</td> <td>TON</td> <td>133,454</td>	202	0136	REMOVAL OF PAVEMENT	TON	133,454
202         0174         REMOVAL OF PIPE ALL TYPES AND SIZES         LF         332           202         0312         REMOVEL CASTING FENCE         LF         9, 139           203         0320         REMOVEL CASTING FENCE         LF         9, 139           203         030         REMOVEL CASTING FENCE         LF         9, 139           203         0138         COMMON EXCAVATION-SUBCUT         CY         1, 81           203         0138         COMMON EXCAVATION - STE 1         EA         1           210         0051         BOX CULVERT EXCAVATION - STE 2         EA         1           210         0045         FOUNDATION FILL         STE         L         A           210         0045         FOUNDATION FILE         TE         L         SUM         1           220         0100         PREPARESTOCKPILE SITE         L         SUM         1         1           220         0201         RESTORE OR PRANTION-TYPE C-121N         MT         15         1           230         0201         SEEDING CLASS II         ACRE         108.2         1         2           231         0200         TEMPERANTOVER CROP         ACRE         108.2         1	202	0169	REMOVAL OF END SECTION-ALL TYPES & SIZES	EA	58
202         0237         REMOVAL OF MEDIAN DRAIN PRECAST CONCRETE         EA         1.13           202         0330         REMOVAL OF TEMPORARY BYPASS         EA         7.13           203         0131         COMONE EXCAVTOR SUBCUT         CY         7.13           203         0131         COMONE EXCAVTOR SUBCUT         CY         7.16           210         0051         BOX CULVERT EXCAVATION - SITE 1         EA         1           210         0051         BOX CULVERT EXCAVATION - SITE 2         EA         1           210         0052         BOX CULVERT EXCAVATION - SITE 1         EA         1           210         0043         FOUNDATION PREPARATION-BOX CULVERT         EA         1           210         0040         PREPARE TOCKPILE SITE         LSUM         1         2           220         0100         PREPARE TOCKPILE SITE         LSUM         ACRE         108.7           220         0100         REPARE TOCKPILE SITE         LSUM         ACRE         108.7           230         0200         SEEDING CLASS II         ACRE         108.7           231         2000         SEEDING CLASS II         ACRE         108.7           235         0201	202	0174	REMOVAL OF PIPE ALL TYPES AND SIZES	LF	332
202         0312         REMOVE EXISTING FENCE         LF         6, 139           203         0108         TOPSOIL         CCAVATION-SUBCUT         CY         75, 173           203         0108         CONDRAL EMBANKIENT         CA         15, 173           203         0218         COMUNCAL OF TEMPORARY BYPASS         EA         75, 173           203         0218         COMUNCAL OF TEMPORARY BYPASS         EA         1           210         0261         BOX CULVERT EXCAVATION - SITE 1         EA         1           210         0405         FOUNDATION PREPARATION-BOX CULVERT         EA         1           220         0100         PREPARATION-BOX CULVERT         EA         1           220         0100         PREPARATION-BOX CULVERT         EA         1           220         0200         RESTORE STOCKPILE SITE         L SUM         1           220         0200         RESTORE STOCKPILE SITE         L SUM         1           220         0200         RESTORE STOCKPILE SITE         L SUM         1           2200         0200         REMPORARY COVER CROP         ACRE         108           2211         2200         SEEDING CLASSI         SY         24242	202	0237	REMOVAL OF MEDIAN DRAIN PRECAST CONCRETE	EA	1
202         0.300         REMOVAL OF TEMPORARY BYPASS         EA         5           203         0138         COMMON IL CAVATION-SUBCUT         CY         75,173           203         0138         COMMON IL CAVATION-SUBCUT         CY         75,173           203         0138         COMMON IL CAVATION-SUBCUT         CY         75,173           210         0051         00ADATION FILL         CY         30           210         0052         BOX CLUVERT EXCAVATION-SUBCUVERT         EA         1           210         0405         FOUNDATION FILL         CY         30           220         0100         PREPARE STOCKPILE SITE         L SUM         1           220         0100         PREPARE STOCKPILE SITE         L SUM         1           220         0100         RESTARDE REPARATION-TYPE C-12IN         STA         557           251         0200         SEEDING CLASS II         ACRE         100.8           255         0201         TEMPORAY COVER CROP         ACRE         100.8           256         0202         TRIT TYPE 2         SY         83           260         0201         REMOVES SUPPORTED         LF         2,135           260	202	0312	REMOVE EXISTING FENCE	LF	9,139
203         0109         10PSOL         CY         1,561           203         0138         COMMONE EXCAVATION-SUBCUT         CY         1,561           203         0218         GUARDRAIL EMBANKMENT         EA         10           210         0052         BOX CULVERT EXCAVATION-SITE 1         EA         1           210         0045         FOUNDATION FILL         CA         1           210         0045         FOUNDATION FILL         CA         1           210         0045         FOUNDATION PREPARATION-BOX CULVERT         EA         1           220         0100         PREPARE STOCKPILE SITE         L SUM         1           220         0200         RESTORE STOCKPILE SITE         L SUM         1           230         0320         SUBGRADE PREPARATION-TYPE C-12IN         STA         557           251         0200         SEEDINC CLASS II         ACRE         106.8         2           2521         2000         TEMPORAPY COVER CROP         ACRE         108.7         2         2           253         0201         TEMPORAPY COVER CROP         SY         238         2         6         0201         TEMPAP GRADE II         CY         2         <	202	0350	REMOVAL OF TEMPORARY BYPASS	EA	5
203         0138         COMMON EXAMA HON-SUBCOI         CY         1,961           203         0128         GUARDRAIL EMBANKMENT         EA         10           210         0051         BOX COLUPERT EXCAVATION - SITE 1         EA         11           210         0051         BOX COLUPERT EXCAVATION - SITE 2         CY         30           210         0405         FOUNDATION PREPARATION-BOX CULVERT         EA         1           210         0405         FOUNDATION PREPARE STOCKPILE SITE         L SUM         1           220         0100         PREPARE STOCKPILE SITE         L SUM         1           220         0200         RESTARATION-TYPE C-121N         STA         557           251         0200         TESTARATION-TYPE C-121N         STA         557           251         0200         TEMPORATY COVER CROP         ACRE         106.7           253         0201         HYDPARA COVER CROP         ACRE         106.7           256         0200         RIPRAP GRADE II         CY         30           260         0200         RIPRAP GRADE II         CY         30           260         0200         RIPRAP GRADE II         CY         30 <t< td=""><td>203</td><td>0109</td><td></td><td>CY</td><td>75,173</td></t<>	203	0109		CY	75,173
203         0218         GUARDRAL EMBARMENT         EA         10           210         0051         BOX CULVERT EXCAVATION - SITE 1         EA         1           210         0052         BOX CULVERT EXCAVATION - SITE 2         EA         1           210         0045         FOUNDTION FILE         ISTE         L         SUM         1           220         0100         PREPARE STOCKPILE SITE         L         SUM         1         2           230         01320         SUBGRADE PREPARATION-TYPE C-12IN         STA         557           251         0200         SEEDING CLASS II         ACRE         1005.8           255         0103         EC TYPE 3         SY         2.33           256         0103         EC TYPE 3         SY         2.33           256         0103         REMOVE SIDEPORTED         LF         2.15           256         0103         REMOVE SIDEPORTED         LF         2.15	203	0138		CY	1,561
210         0051         BOX COLUMENT EXCAVATION - SITE 1         EA         1           210         0052         BOX COLUMENT EXCAVATION - SITE 2         CY         30           210         0040         FOUNDATION FILL         CY         30           220         0020         RESTOR STOCKPILE SITE         LSUM         1           220         0020         RESTOR STOCKPILE SITE         LSUM         1           230         0106         RESHAPING ROADWAY         MULE         12.223           230         0200         TEMPORARY COVER CROP         ACCRE         106.7           255         0200         TEMPORARY COVER CROP         ACCRE         105.7           255         0200         TEMPAR PRAPICIN-TYPE C-12IN         ACCRE         105.7           256         0200         TEMPAP GRADE II         CY         21         256           256         0200         RIPRAP GRADE II         CY         21         255	203	0218		EA	10
210         0022         BOA CULYENT EXAVALION - SILE 2         EA         1           210         0020         FOUNDATION PREPARATION-BOX CULVERT         EA         1           210         0100         WATER         FOUNDATION PREPARATION-BOX CULVERT         EA         1           210         0100         WATER         STORE STORE STORE MILE SITE         L SUM         1           220         0200         RESTORE STOCKPILE SITE         L SUM         1         1           230         0320         SUBGRADE PREPARATION-TYPE C-12IN         STA         CACRE         1008           251         12000         SEEDING CLASS II         ACRE         1008         R         REAL         1082           253         1013         ECR TYPE 3         SY         2332         256         1010         RIPRAP GRADE I         CY         21           256         0120         RIP TRAP GRADE I         CY         21         332           266         0100         RIPRAP GRADE I         CY         21         32           260         0200         RIP TRAP GRADE I         CY         21         332           261         01112         FIBER ROLLS 12IN         LF         7.7.716	210	0051	BOX CULVERT EXCAVATION - SITE 1	EA	1
210         0210         POUNDATION PREPARATION-BOX CULVERT         CA         30           216         0405         FOUNDATION PREPARATION-BOX CULVERT         M GAL         3.453           220         0100         PRESTOCKPILE SITE         L SUM         1           220         0200         RESTOR BITOCKPILE SITE         L SUM         1           220         0200         RESTOR BITOCKPILE SITE         L SUM         1           220         0200         REGRAPP REPORT         MIL         12.27           0300         REMORANCE REPORT         MIL         5.27           231         0200         TEMPORAY GOVER CROP         ACRE         108.7           255         0201         TEMPARY CRADE I         CY         21           256         0202         TRI TYPE 2         SY         2.42           256         0200         REMOVE SUPPORTED         LF         2.135           261         0113         REMOVE SUPPORTED         LF         1.55,954           261         0113         REMOVE SUPPORTED         LF         1.55,954           261         0113         REMOVE SUPPORTED         LF         1.55,954           261         0113         REMOVE	210	0052	BOX CULVERT EXCAVATION - SITE 2	EA	1
210         0405         FOUNDATION PREPARATION-BOX COLVENT         EA         1           216         0100         WATER         M GAL         3,453           220         0100         PREPARA STOCKPILE SITE         L SUM         1           220         0100         RESUMPING COCKPILE SITE         L SUM         1           220         0100         RESUMPING COCKPILE SITE         L SUM         1           220         0100         RESUMPING CASS II         STA         557           251         0200         SEEDING CLASS II         ACRE         109.8           255         0103         FCB TYPE 3         SY         2.242           256         0200         RIPRAP GRADE II         CY         21           256         0200         RIPRAP GRADE II         CY         30           2600         0200         SILT FENCE SUPPORTED         LF         2.135           261         0112         FIBER ROLLS 12IN         LF         7.7,716           302         0100         SALVACED BASE COURSE         TON         101,339           401         0060         PRIME COAT         GAL         4,761           411         0105         ALXC COAT	210	0210		CY	30
210         0100         WATER         STOCKPILE SITE         Month         3,433           220         0200         RESTORE STOCKPILE SITE         L SUM         1           220         0300         SUGERARS STOCKPILE SITE         L SUM         1           230         0320         SUGERARS TOCKPILE SITE         L SUM         1           231         2000         TEMPORART COOLER CROP         ACRE         108.7           255         0101         ENPERAP GRADE I         C Y         21           256         0200         RIFRAP GRADE I         C Y         30           260         0201         REMOVE TENCE SUPPORTED         L F         2.135           261         0112         FIBER ROLLS 12IN         L F         7.7.16           302         0000         TACK COAT         GAL         1.896           3010	210	0405		EA	0.450
220         0100         PREPARE STOCKPILE STIE         L SUM         1           220         0200         RESTORE STOCKPILE STIE         L SUM         1           230         0106         RESHAPING ROADWAY         MILE         12.22           230         0202         SUBGRADE PREPARATION-TYPE C-12IN         STA         557           251         0200         TEMPORART COVER CROP         ACRE         108.7           253         0200         TEMPORART COVER CROP         ACRE         108.7           255         0201         FUPORATIC COVER CROP         ACRE         108.7           256         0202         FOMPORATIC COVER CROP         ACRE         108.7           256         0202         FOMPORATIC COVER CROP         ACRE         108.7           256         0200         RIPRAPERADE I         CY         30           250         0200         RIPRAPERADE I         CY         30           250         0201         REMOVE SULT FROCE SUPPORTED         LF         21.35           261         0101         REMOVE SULT FROCE SUPPORTED         LF         7.16           210         0102         RACK COAT         GAL         4.761           2111	210	0100		MGAL	3,453
LAD         LESUME SIMONFILESTIC         LSUM         L           230         0106         RESUME SIMONFILESTIC         MILE         12.22           230         0320         SUBGRADE PREPARATION-TYPE C-12IN         STA         557           251         2000         SEEDING CLASS II         ACRE         109.8           251         2000         TEMPORARY COVER CROP         ACRE         108.7           253         2021         HYDRAULC MUCH         ACRE         218.5           256         0103         ECB TYPE 3         SY         2.242           256         0200         RIFRAP GRADE I         CY         21           2660         0200         RIFRAP GRADE I         CY         21           2660         0200         RIFRAP GRADE I         CY         21           261         0112         FIBER ROLLS 12IN         LF         2.135           261         0113         REMOVE FIBER ROLLS 12IN         LF         7.77.716           302         0100         SALVACED BASE COURSE         TON         101.389           401         0050         TACK COAT         GAL         4.761           411         1015         MILLING PAVEMENT SURFACE	220	0100			1
	220	0200			10.00
±         5JAL         3JA         3JA         231           251         2000         SEEDING CLASS III         ACRE         109.5           251         2000         TEMPORARY COVER CROP         ACRE         109.7           253         2021         HYDRAULC MULCH         ACRE         109.7           255         0003         ECB TYPE 3         SY         2.442           256         0000         RIPRAP GRADE I         CY         21           256         0200         RIPRAP GRADE I         CY         20           260         0200         SLI TENCE SUPPORTED         LF         2.135           261         0113         REMOVE SILT FENCE SUPPORTED         LF         7.716           302         0100         SALVAGED BASE COURSE         TON         101.389           401         0050         TACK COAT         GAL         4.761           411         0050         TACK COAT         GAL         4.761           430         0040         SUPERPAVE FAA 40         TON         500           302         8.51N NON-REINE CONCRETE PVMT CL AE-DOWELED         SY         4.42.71           430         0040         SUPERPAVE FAA 40         TON </td <td>230</td> <td>0100</td> <td></td> <td></td> <td>12.22</td>	230	0100			12.22
1         0.000         DELDING VALOS II         PARE         1093           251         2000         TEMPORARY COVER CROP         ACRE         108.7           253         0201         HYDRAULC MULCH         ACRE         218.5           255         0103         ECB TYPE 3         SY         2242           255         0202         TRM TYPE 2         SY         838           256         0200         RIFRAP GRADE I         CY         21           260         0200         RIFYEAP GRADE I         CY         30           261         0112         FIBER ROLLS 12IN         LF         2,135           261         0113         REMOVE FIBER ROLLS 12IN         LF         77.716           302         0100         SALVAGED BASE COURSE         TON         101,399           401         0050         TACK COAT         GAL         1,896           401         0050         TACK COAT         GAL         1,896           401         0050         PATCHING         TON         6,035           430         2000         PATCHING         TON         500           330         550         0302         8,510 NON-REINF CONCRETE PVMT CLAE-DOWELED </td <td>250</td> <td>0320</td> <td></td> <td></td> <td>100 0</td>	250	0320			100 0
±01         LEMPENDATI GOVENNOF         ARE         1057           253         0201         HYDRAULC MUCH         ACRE         218.5           255         0103         ECB TYPE 3         SY         2,242           255         0202         TRM TYPE 2         SY         838           256         0200         RIPRAP GRADE I         CY         21           256         0200         SILT FENCE SUPPORTED         LF         2,135           261         0112         FIBER ROLLS 12IN         LF         15,954           261         0112         FIBER ROLLS 12IN         LF         17,716           302         0100         SALVAGED BASE COURSE         TON         101,389           401         0050         TACK COAT         GAL         4,761           411         0105         MILING PAVEMERT SURFACE         SY         14,221           430         0404         SUPERPAVE FAA 40         TON         60.35           430         0404         SUPERPAVE FAA 40         TON         60.35           430         0404         SUPERPAVE FAA 40         TON         60.35           430         0404         SUPERPAVE FAA 40         TON	201	2000			109.0
bits         Display Stress         Number of the stres         Numer of the stress	201	0201			219 5
bits         bits         bits         bits         bits         bits           285         0100         RIPRAP GRADE I         CY         21           286         0200         RIPRAP GRADE I         CY         30           286         0200         SILT FENCE SUPPORTED         LF         2,135           280         0201         REMOVE SILT FENCE SUPPORTED         LF         2,135           281         0112         FIBER ROLLS 12IN         LF         7,716           302         0100         SALVAGED BASE COURSE         TON         101,389           401         0060         PRIME COAT         GAL         1,896           401         0060         PRIME COAT         GAL         4,781           411         1015         MILING PAVEMENT SURFACE         SY         14,221           430         0040         SUPERPAVE FAA 40         TON         600           430         2000         PATCHING         TON         500           430         0040         SUPERPAVE FAA 40         TON         500           430         2000         PATCHING         TON         500           430         2000         PATCHING         TON <td>200</td> <td>0201</td> <td></td> <td></td> <td>210.0</td>	200	0201			210.0
bits         bits <td>255</td> <td>0202</td> <td>TRM TYPE 2</td> <td>SV</td> <td><u> </u></td>	255	0202	TRM TYPE 2	SV	<u> </u>
236         0.00         NIFRAF GRADE II         CY         30           286         0.200         SILT FENCE SUPPORTED         LF         2.135           286         0.201         REMOVE SILT FENCE SUPPORTED         LF         2.135           286         0.201         REMOVE SILT FENCE SUPPORTED         LF         2.135           286         0.201         REMOVE SILE ROLLS 12IN         LF         7.7716           302         0100         SALVAGED BASE COURSE         TON         101,389           401         0060         PRIME COAT         GAL         1.896           401         0060         PRIME COAT         GAL         4.761           430         0040         SUPERPAVE FAA 40         TON         6.035           430         2000         PATCHING         TON         6.035           430         2000         PATCHING         TON         6.035           430         2000         PATCHING         CON         3.650           332         560         332         8.58.28         ASPHALT CEMENT         TON         3.650           3430         2000         PATCHING         CARCHETE PVMT CL AE-DOWELED         SV         2.00.872	255	0202			21
260         0200         SILT FENCE SUPPORTED         LF         243           260         0201         REMOVE SILT FENCE SUPPORTED         LF         243           261         0112         FIBER ROLLS 12IN         LF         155,954           261         0113         REMOVE FIBER ROLLS 12IN         LF         77,716           302         0100         SALVAGED BASE COURSE         TON         101,389           401         0060         TACK COAT         GAL         4,761           411         0105         MILLING PAVEMENT SURFACE         SY         14,221           430         0040         SUPERPAVE FAA 40         TON         6,035           430         2000         PATCHING         AFADOM PCC CRACK CLENING & SEALING         LF         249           602         0302         8,51N NON-REINF CONCRETE EVMT CL AE-DOWELED         SY         200,872           570         0966         RANDOM PCC CRACK CLEANING & SEALING         LF         249           602         1131         CLASS AE-3 CONCRETE BOX CULVERT         CY         48.9           602         1133         CONCRETE BRIDGE APPROACH SLAB         SY         144.4           602         1133         CONCRETE BRIDGE APPROACH S	256	0200	RIPRAP GRADE II	CY	30
280         2020         DEMOVE SILT FENCE SUPPORTED         LF         2.138           281         0112         FIBER ROLLS 12IN         LF         77.716           302         0100         SALVAGED BASE COURSE         TON         101,389           401         0050         TACK COAT         GAL         4,866           401         0050         TACK COAT         GAL         4,876           411         0105         MILLING PAVEMENT SURFACE         SY         14,221           430         0040         SUPERPAVE FAA 40         TON         6,035           430         2000         PATCHING         TON         560           430         580         3022         8,51N NON-REIF CONCRETE PWIT CL AE-DOWELED         SY         200,872           570         0966         RANDOM PCC CRACK CLEANING & SEALING         LF         249           602         1133         CLASS AE-3 CONCRETE         CY         48.9           602         1133         CLASS AE-3 CONCRETE PARD CALS LAB-COWELED         SY         484.4           602         1133         CLASS AE-3 CONCRETE MADE CONCLEXT         LBS         9,392           612         0114         REINFORCING STEEL-GRADE 60-DOX CLUVERT <t< td=""><td>260</td><td>0200</td><td></td><td>LE</td><td>2 135</td></t<>	260	0200		LE	2 135
261         0112         FIBER ROLLS 12IN         LF         156,354           261         0113         REMOVE FIBER ROLLS 12IN         LF         77,716           302         0100         SALVAGED BASE COURSE         TON         101,389           401         0050         TACK COAT         GAL         1,896           401         0060         PRIME COAT         GAL         1,896           411         0105         MILLING PAVEMENT SURFACE         SY         14,221           430         0040         SUPERPAVE FAA 40         TON         6,035           430         2000         PATCHING         TON         6,035           430         2000         PATCHING         TON         6,035           430         2000         PATCHING         TON         6,035           430         2001         PATCHING         SALVAGED CANCRETE         TON         500           602         1131         CLASS A& 2 CONCRETE BOX ADUVERT         CY         48.9         52           602         1133         CONCRETE BRIDGE APPROACH SLAB         SY         144.4           602         1133         CONCRETE PERDACH SLAB         SY         364.7           612<	260	0200	REMOVE SUIT FENCE SUPPORTED	LI	2,135
261         0113         REMOVE FIBER ROLLS 12IN         IF         77.716           302         0100         SALVAGED BASE COURSE         TON         101,389           401         0050         TACK COAT         GAL         1,886           401         0050         TACK COAT         GAL         4,781           411         0105         MILLING PAVEMENT SURFACE         SY         144,221           430         0040         SUPERPAVE FAA 40         TON         6,035           430         2000         PATCHING         TON         6,035           550         0302         8,51N NON-REINF CONCRETE PVMT CL AE-DOWELED         SY         200,872           570         0966         RANDOM PCC CRACK CLEANING & SEALING         LF         249           602         1131         CLASS A&E-3 CONCRETE         CY         289.6           602         1133         CONCRETE BRIDGE APPROACH SLAB         SY         144.4           602         1133         CONCRETE BRIDGE APROACH SLAB         SY         144.4           602         1230         CLASS AAE-3 CONCRETE         SY         364.4           602         1250         PENETRATING WATER REPELLENT TREATIMENT         SY         783	261	0112	FIBER BOLLS 12IN	LF	155 954
302         0100         SALVAGED BASE COURSE         TON         101/389           401         0050         TACK COAT         GAL         1,886           401         0050         TACK COAT         GAL         1,886           401         0050         TACK COAT         GAL         4,781           411         0105         MILLING PAVEMENT SURFACE         SY         14,221           430         2000         PATCHING         TON         6,035           430         2000         PATCHING         TON         500           430         2000         PATSA         TON         500           430         2000         PATCHING         TON         500           430         2503         9668         RANDOM PCC CRACK CLEANING & SELIAD         TON         363           560         0302         & SIN NON-REINF CONCRETE PVMT CL AE-DOWELED         SY         200.872           602         1133         CONCRETE BRIDGE APPROACH SLAB         SY         144.4           602         1133         CONCRETE BRIDGE APPROACH SLAB         SY         144.4           602         1133         CONCRETE GRADE 60-BOX CULVERT         LBS         9.392           612	261	0113	REMOVE FIBER ROLLS 12IN		77 716
401         0050         TACK COAT         GAL         1.898           401         0060         PRIME COAT         GAL         4,761           411         0060         PRIME COAT         GAL         4,761           430         0040         SUPERPAVE FAA 40         TON         6,035           430         2000         PATCHING         TON         6,035           430         5803         PG 585-28 ASPHALT CEMENT         TON         363           550         0302         8.51N NON-REIME CONCRETE PWIT CL AE-DOWELED         SY         200.872           602         0130         CLASS AAE-3 CONCRETE BOX CULVERT         CY         269.6           602         1133         CONCRETE BRIDGE APPROACH SLAB-REMOVE & REPLACE         SY         144.4           602         1133         CONCRETE BRIDGE APPROACH SLAB-REMOVE & REPLACE         SY         364.6           602         1133         CONCRETE BRIDGE APPROACH SLAB-REMOVE & REPLACE         SY         783           612         0114         REINFORCING STEEL-GRADE 60-BOX CULVERT         LBS         9.382.7           612         0116         REINFORCING STEEL-GRADE 60-EOXY COATED         LBS         68,747           624         3002         DOUBLE	302	0100	SALVAGED BASE COURSE	TON	101 389
401         0060         PRIME COAT         GAL         4/761           411         0105         MILLING PAVEMENT SURFACE         SY         14,221           430         2000         PATCHING         TON         6,035           430         2000         PATCHING         TON         500           430         2008         FI         249         602         1131         CLASS A&E-3 CONCRETE         CV         48.9           602         1133         CONCRETE BRIDGE APPROACH SLAB         SY         144.4           602         1133         CONCRETE BRIDGE APPROACH SLAB         SY         144.4           602         1133         CONCING STEEL-GRADE 60-BOX CULVERT         LBS         9,392           612         0114         REINFORCING STEEL-GRADE 60-BOX CULVERT         LBS         144/1.7 <td>401</td> <td>0050</td> <td>TACK COAT</td> <td>GAL</td> <td>1 896</td>	401	0050	TACK COAT	GAL	1 896
411         0105         MILLING PAVEMENT SURFACE         SY         14.221           430         0040         SUPERPAVE FAA 40         TON         6.035           430         2000         PATCHING         TON         500           430         5803         PG 58S-28 ASPHALT CEMENT         TON         363           550         0302         8.5IN NON-REINF CONCRETE PVMT CL AE-DOWELED         SY         200.872           570         0966         RANDOM PCC CRACK CLEANING & SEALING         LF         249           602         0130         CLASS A&E-3 CONCRETE         CY         269.6           602         1133         CONCRETE BRIDGE APPROACH SLAB         SY         144.4           602         1133         CONCRETE BRIDGE APPROACH SLAB-REMOVE & REPLACE         SY         364.4           602         1250         PENETRATING WATER REPELLENT TREATMENT         SY         783           612         0114         REINFORCING STEEL-GRADE 60-EDX CULVERT         LBS         9.392           612         0116         REINFORCING STEEL-GRADE 60-EDXY COATED         LBS         68,747           624         3005         CONNECTION PLATE MODIFICATION         LSUM         1           704         0100	401	0060	PRIME COAT	GAL	4 761
430         0040         SUPERPAVE FAA 40         TON         6,035           430         2000         PATCHING         TON         500           430         2000         PATCHING         TON         363           550         0302         8.5IN NON-REINF CONCRETE PVMT CL AE-DOWELED         SY         200,872           570         0966         RANDOM PCC CRACK CLEANING         LF         249           602         0130         CLASS A&E-3 CONCRETE         CY         48.9           602         1133         CONCRETE BRIDGE APPROACH SLAB         SY         144.4           602         1135         BRIDGE APPROACH SLAB         SY         144.4           602         1135         DENETRATING WATER REPELLENT TREATMENT         SY         783           612         0114         REINFORCING STEEL-GRADE 60-BOX CULVERT         LBS         9,392           612         0116         REINFORCING STEEL-GRADE 60-BOX CULVERT         LBS         68,747           624         3002         DOUBLE BOX BEAM RAIL RETROFIT - E-RAIL         LF         1,441.7           624         3002         DOUBLE BOX BEAM RAIL RETROFIT - E-RAIL         LF         1,441.7           624         3002         DOUBLE BOX BEAM RAIL	411	0105	MILLING PAVEMENT SURFACE	SY	14.221
430         2000         PATCHING         TON         500           430         5803         PG 588-28 ASPHALT CEMENT         TON         363           550         0302         8.5IN NON-REINF CONCRETE PVMT CL AE-DOWELED         SY         200.872           570         09966         RANDOM PCC CRACK CLEANING & SEALING         LF         249           602         0130         CLASS A&E-3 CONCRETE         CY         269.6           602         1131         CLASS A&E-3 CONCRETE         CY         48.9           602         1133         CONCRETE BRIDGE APPROACH SLAB         SY         144.4           602         1135         BRIDGE APPROACH SLAB-REMOVE & REPLACE         SY         364.4           602         120         PENETRATING WATER REPELLENT TREATMENT         SY         783           612         0114         REINFORCING STEEL-GRADE 60-BOX CULVERT         LBS         9.392           612         0116         REINFORCING STEEL-GRADE 60-EPOXY COATED         LBS         68.747           624         3005         CONNECTION PLATE MODIFICATION         L         200         1           704         0100         FLAGGING         MHR         3.250         1           704         10	430	0040	SUPERPAVE FAA 40	TON	6.035
430         5803         PG 585-28 ASPHALT CEMENT         TON         363           550         0302         8.5IN NON-REINF CONCRETE PVMT CL AE-DOWELED         SY         200,872           570         0966         RANDOM PCC CRACK CLEANING & SEALING         LF         249           602         0130         CLASS AAE-3 CONCRETE         CY         269,6           602         1131         CLASS AAE-3 CONCRETE         CY         269,6           602         1133         CONCRETE BRIDGE APPROACH SLAB         SY         144,4           602         1135         BRIDGE APPROACH SLAB         SY         144,4           602         1135         BRIDGE APPROACH SLAB         SY         144,4           602         1135         BRIDGE APPROACH SLAB-REMOVE & REPLACE         SY         764,4           602         1135         BRIDGE APPROACH SLAB-REMOVE & REPLACE         SY         764,4           612         0114         REINFORCING STEEL-GRADE 60-BOX CULVERT         LBS         9,392           612         0116         REINFORCING STEEL-GRADE 60-DOX COATED         LBS         68,747           624         3002         DOUBLE BOX BEAM RAIL RETROFIT - E-RAIL         LF         1,441,7           624         3	430	2000	PATCHING	TON	500
550         0302         8.5IN NON-REINF CONCRETE PVMT CL AE-DOWELED         SY         200.872           570         0966         RANDOM PCC CRACK CLEANING & SEALING         LF         249           602         0130         CLASS AAE-3 CONCRETE         CY         269.6           602         1131         CLASS AAE-3 CONCRETE-BOX CULVERT         CY         48.9           602         1133         CONCRETE BRIDGE APPROACH SLAB         SY         144.4           602         1135         BRIDGE APPROACH SLAB-REMOVE & REPLACE         SY         364.4           602         1250         PENETRATING WATER REPELLENT TREATMENT         SY         783           612         0114         REINFORCING STEEL-GRADE 60-BOX CULVERT         LBS         9,392           612         0115         REINFORCING STEEL-GRADE 60-BOX CULVERT         LBS         1,204           612         0116         REINFORCING STEEL-GRADE 60-EPOXY COATED         LBS         6,747           624         3005         CONNECTION PLATE MODIFICATION         LF         1,441.7           624         3005         CONNECTION PLATE MODIFICATION         LSUM         1           704         1000         TRAFFIC CONTROL SIGNS         UNIT         14.096	430	5803	PG 58S-28 ASPHALT CEMENT	TON	363
570         0966         RANDOM PCC CRACK CLEANING & SEALING         LF         249           602         0130         CLASS A&E-3 CONCRETE         CY         269.6           602         1131         CASS A&E-3 CONCRETE BOX CULVERT         CY         48.9           602         1133         CONCRETE BRIDGE APPROACH SLAB         SY         144.4           602         1133         CONCRETE BRIDGE APPROACH SLAB         SY         144.4           602         1133         CONCRETE BRIDGE APPROACH SLAB         SY         144.4           602         1135         BRIDGE APPROACH SLAB-REMOVE & REPLACE         SY         364.4           602         1135         BRIDGE APPROACH SLAB-REMOVE & REPLACE         SY         364.4           602         0115         REINFORCING STEEL-GRADE 60-BOX CULVERT         LBS         9,392           612         0116         REINFORCING STEEL-GRADE 60-EPOXY COATED         LBS         68,747           624         3002         DOUBLE BOX BEAM RAIL RETROFIT - E-RAIL         LF         1,441.7           624         3002         CONNECTION PLATE MODIFICATION         EA         2           702         0100         FLAGGING         MHR         3,250           704         1000<	550	0302	8.5IN NON-REINF CONCRETE PVMT CL AE-DOWELED	SY	200,872
602         0130         CLASS AAE-3 CONCRETE         CY         269.6           602         1131         CLASS AE-3 CONCRETE BOX CULVERT         CY         48.9           602         1133         CONCRETE BRIDGE APPROACH SLAB         SY         144.4           602         1135         BRIDGE APPROACH SLAB-REMOVE & REPLACE         SY         364.4           602         1250         PENETRATING WATER REPELENT TREATMENT         SY         783           612         0114         REINFORCING STEEL-GRADE 60-BOX CULVERT         LBS         9,392           612         0115         REINFORCING STEEL-GRADE 60-EPOXY COATED         LBS         68,747           624         3002         DOUBLE BOX BEAM RAIL RETROFIT - E-RAIL         LF         1,441.7           624         3005         CONNECTION PLATE MODIFICATION         LSUM         1           704         0100         FLAGGING         MHR         3,250           704         0100         FLAGGING         MHR         3,250           704         1052         TYPE III BARRICADE         EA         63           704         1067         TUBULAR MARKERS         EA         1649           704         1067         TUBULAR MARKERS         EA </td <td>570</td> <td>0966</td> <td>RANDOM PCC CRACK CLEANING &amp; SEALING</td> <td>LF</td> <td>249</td>	570	0966	RANDOM PCC CRACK CLEANING & SEALING	LF	249
602         1131         CLASS AE-3 CONCRETE-BOX CULVERT         CY         48.9           602         1133         CONCRETE BRIDGE APPROACH SLAB         SY         144.4           602         1135         BRIDGE APPROACH SLAB-REMOVE & REPLACE         SY         364.4           602         1250         PENETRATING WATER REPELLENT TREATMENT         SY         783           612         0114         REINFORCING STEEL-GRADE 60-BOX CULVERT         LBS         9,392           612         0116         REINFORCING STEEL-GRADE 60-EPOXY COATED         LBS         68,747           624         3005         CONNECTION PLATE MODIFICATION         EA         2           702         0100         MOBILIZATION         LA         2         1,441.7           624         3005         CONNECTION PLATE MODIFICATION         EA         2           704         0100         TRAFFIC CONTROL SIGNS         UNIT         14,096           704         10045         ATTENUATION DEVICE-TYPE B-75         EA         2           704         1067         TUBULAR MARKERS         EA         1,649           704         1067         TUBULAR MARKERS         EA         1,649           704         1067         TUBULAR	602	0130	CLASS AAE-3 CONCRETE	CY	269.6
602         1133         CONCRETE BRIDGE APPROACH SLAB         SY         144.4           602         1135         BRIDGE APPROACH SLAB-REMOVE & REPLACE         SY         364.4           602         1250         PENETRATING WATER REPELLENT TREATMENT         SY         783           612         0114         REINFORCING STEEL-GRADE 60-BOX CULVERT         LBS         9,392           612         0115         REINFORCING STEEL-GRADE 60-EPOXY COATED         LBS         68,747           624         3002         DOUBLE BOX BEAM RAIL RETROFIT - E-RAIL         LF         1,441.7           624         3005         CONNECTION PLATE MODIFICATION         LSUM         1           704         0100         MOBILIZATION         LSUM         1           704         1000         TRAFFIC CONTROL SIGNS         UNIT         14,096           704         1000         TRAFFIC CONTROL SIGNS         UNIT         14,096           704         1052         TYPE III BARRICADE         EA         63           704         1067         TUBULAR MARKERS         EA         164           704         1067         TUBULAR MARKERS         EA         166           704         1060         STACKABLE VERTICAL PANELS	602	1131	CLASS AE-3 CONCRETE-BOX CULVERT	CY	48.9
602         1135         BRIDGE APPROACH SLAB-REMOVE & REPLACE         SY         364.4           602         1250         PENETRATING WATER REPELLENT TREATMENT         SY         783           612         0114         REINFORCING STEEL-GRADE 60-BOX CULVERT         LBS         9,392           612         0115         REINFORCING STEEL-GRADE 60-EPOXY COATED         LBS         168,747           624         3002         DOUBLE BOX BEAM RAIL RETROFIT - E-RAIL         LF         1,441.7           624         3005         CONNECTION PLATE MODIFICATION         EA         2           702         0100         MOBILIZATION         LSUM         1           704         0100         FLAGGING         MHR         3,250           704         1000         TRAFFIC CONTROL SIGNS         UNIT         14,096           704         1052         TYPE III BARRICADE         EA         63           704         1060         DELINEATOR         EA         144           704         1060         DELINEATOR         EA         1649           704         1072         FLEXIBLE DELINEATORS         EA         1640           704         1072         FLEXIBLE DELINEATOR         EA         122	602	1133	CONCRETE BRIDGE APPROACH SLAB	SY	144.4
602         1250         PENETRATING WATER REPELLENT TREATMENT         SY         783           612         0114         REINFORCING STEEL-GRADE 60-BOX CULVERT         LBS         9,392           612         0115         REINFORCING STEEL-GRADE 60-BOX COATED         LBS         1,204           612         0116         REINFORCING STEEL-GRADE 60-EPOXY COATED         LBS         68,747           624         3002         DOUBLE BOX BEAM RAIL RETROFIT - E-RAIL         LF         1,441.7           624         3005         CONNECTION PLATE MODIFICATION         EA         2           702         0100         MOBILIZATION         L SUM         1           704         0100         FLAGGING         MHR         3,250           704         1045         ATTENUATION DEVICE-TYPE B-75         EA         2           704         1052         TYPE III BARRICADE         EA         63           704         1067         TUBULAR MARKERS         EA         164           704         1067         TUBULAR MARKERS         EA         166           704         1067         TUBULAR MARKERS         EA         1649           704         1070         DELINEATOR         EA         166 <td>602</td> <td>1135</td> <td>BRIDGE APPROACH SLAB-REMOVE &amp; REPLACE</td> <td>SY</td> <td>364.4</td>	602	1135	BRIDGE APPROACH SLAB-REMOVE & REPLACE	SY	364.4
612         0114         REINFORCING STEEL-GRADE 60-BOX CULVERT         LBS         9,392           612         0115         REINFORCING STEEL-GRADE 60-EPOXY COATED         LBS         68,747           624         3002         DOUBLE BOX BEAM RAIL RETROFIT - E-RAIL         LF         1,441.7           624         3005         CONNECTION PLATE MODIFICATION         EA         2           702         0100         MOBILIZATION         L SUM         1           704         0100         FLAGGING         MHR         3,250           704         1000         TRAFFIC CONTROL SIGNS         UNIT         14,096           704         1045         ATTENUATION DEVICE-TYPE B-75         EA         2           704         1062         TYPE III BARRICADE         EA         63           704         1067         TUBULAR MARKERS         EA         1,649           704         1067         TUBULAR MARKERS         EA         460           704         1072         FLEXIBLE DELINEATORS         EA         460           704         1080         STACKABLE VERTICAL PANELS         EA         166           704         1080         STACKABLE VERTICAL PANELS         EA         12	602	1250	PENETRATING WATER REPELLENT TREATMENT	SY	783
612         0115         REINFORCING STEEL-GRADE 60         LBS         1,204           612         0116         REINFORCING STEEL-GRADE 60-EPOXY COATED         LBS         68,747           624         3002         DOUBLE BOX BEAM RAIL RETROPIT - E-RAIL         LF         1,441.7           624         3005         CONNECTION PLATE MODIFICATION         EA         2           702         0100         MOBILIZATION         LSUM         1           704         0100         FLAGGING         MHR         3,250           704         1000         TRAFFIC CONTROL SIGNS         UNIT         14,096           704         1045         ATTENUATION DEVICE-TYPE B-75         EA         2           704         1060         DELINEATOR DRUMS         EA         514           704         1060         DELINEATOR DRUMS         EA         469           704         1067         TUBULAR MARKERS         EA         4649           704         1072         FLEXIBLE DELINEATORS         EA         4649           704         1080         STACKABLE VERTICAL PANELS         EA         166           704         1080         STACKABLE VERTICAL PANELS         EA         12	612	0114	REINFORCING STEEL-GRADE 60-BOX CULVERT	LBS	9,392
612         0116         REINFORCING STEEL-GRADE 60-EPOXY COATED         LBS         68,747           624         3002         DOUBLE BOX BEAM RAIL RETROFIT - E-RAIL         LF         1,441.7           624         3005         CONNECTION PLATE MODIFICATION         EA         2           702         0100         MOBILIZATION         L SUM         1           704         0100         FLAGGING         MHR         3,250           704         1000         TRAFFIC CONTROL SIGNS         UNIT         14,096           704         1052         TYPE III BARRICADE         EA         2           704         1060         DELINEATOR DRUMS         EA         514           704         1067         TUBULAR MARKERS         EA         1,649           704         1070         DELINEATOR         EA         460           704         1070         DELINEATOR         EA         166           704         1070         DELINEATOR         EA         166           704         1080         STACKABLE VERTICAL PANELS         EA         166           704         1080         SEQUENCING ARROW PANEL-TYPE C-CROSSOVER         EA         2           704         1088<	612	0115	REINFORCING STEEL-GRADE 60	LBS	1,204
624         3002         DOUBLE BOX BEAM RAIL RETROFIT - E-RAIL         LF         1,441.7           624         3005         CONNECTION PLATE MODIFICATION         EA         2           702         0100         MOBILIZATION         L SUM         1           704         0100         FLAGGING         MHR         3,250           704         1000         TRAFFIC CONTROL SIGNS         UNIT         14,096           704         1052         TYPE III BARRICADE         EA         63           704         1060         DELINEATOR DRUMS         EA         514           704         1067         TUBULAR MARKERS         EA         1,649           704         1070         DELINEATOR         EA         460           704         1072         FLEXIBLE DELINEATORS         EA         460           704         1072         FLEXIBLE DELINEATORS         EA         166           704         1080         STACKABLE VERTICAL PANELS         EA         166           704         1081         VERTICAL PANELS-BACK TO BACK         EA         12           704         1080         STACKABLE VERTICAL PANELS         EA         12           704         1088	612	0116	REINFORCING STEEL-GRADE 60-EPOXY COATED	LBS	68,747
624         3005         CONNECTION PLATE MODIFICATION         EA         2           702         0100         MOBILIZATION         L SUM         1           704         0100         FLAGGING         MHR         3,250           704         1000         TRAFFIC CONTROL SIGNS         UNIT         14,096           704         1045         ATTENUATION DEVICE-TYPE B-75         EA         2           704         1052         TYPE III BARRICADE         EA         63           704         1060         DELINEATOR DRUMS         EA         514           704         1067         TUBULAR MARKERS         EA         1,649           704         1070         DELINEATOR DRUMS         EA         460           704         1070         DELINEATOR         EA         460           704         1070         DELINEATOR         EA         460           704         1070         STACKABLE VERTICAL PANELS         EA         166           704         1080         STACKABLE VERTICAL PANELS         EA         12           704         1081         VERTICAL PANELS-BACK TO BACK         EA         12           704         1083         SEQUENCING ARROW PANE	624	3002	DOUBLE BOX BEAM RAIL RETROFIT - E-RAIL		1,441.7
TOZ         0100         MUBBILIZATION         L SUM         1           704         0100         FLAGGING         MHR         3,250           704         1000         TRAFFIC CONTROL SIGNS         UNIT         14,096           704         1045         ATTENUATION DEVICE-TYPE B-75         EA         2           704         1052         TYPE III BARRICADE         EA         63           704         1060         DELINEATOR DRUMS         EA         514           704         1067         TUBULAR MARKERS         EA         1,649           704         1070         DELINEATOR         EA         460           704         1070         DELINEATOR         EA         460           704         1070         DELINEATOR         EA         166           704         1080         STACKABLE VERTICAL PANELS         EA         166           704         1081         VERTICAL PANELS-BACK TO BACK         EA         12           704         1087         SEQUENCING ARROW PANEL-TYPE C         EA         2           704         1088         SEQUENCING ARROW PANEL-TYPE C-CROSSOVER         EA         2           704         1088         SEQUENCING AR	624	3005		EA	2
104         0100         FLAGGING         MHR         3,250           704         1000         TRAFFIC CONTROL SIGNS         UNIT         14,096           704         1045         ATTENUATION DEVICE-TYPE B-75         EA         2           704         1052         TYPE III BARRICADE         EA         63           704         1060         DELINEATOR DRUMS         EA         514           704         1067         TUBULAR MARKERS         EA         1,649           704         1070         DELINEATOR         EA         460           704         1070         DELINEATOR         EA         460           704         1072         FLEXIBLE DELINEATORS         EA         460           704         1080         STACKABLE VERTICAL PANELS         EA         166           704         1081         VERTICAL PANELS-BACK TO BACK         EA         12           704         1087         SEQUENCING ARROW PANEL-TYPE C         EA         2           704         1088         SEQUENCING ARROW PANEL-TYPE C-CROSSOVER         EA         2           704         1088         SEQUENCING ARROW PANEL-TYPE C-CROSSOVER         EA         1           706         04	/02	0100			1
1000         IRAFFIC CONTROL SIGNS         UNII         14,096           704         1045         ATTENUATION DEVICE-TYPE B-75         EA         2           704         1052         TYPE III BARRICADE         EA         63           704         1060         DELINEATOR DRUMS         EA         514           704         1067         TUBULAR MARKERS         EA         1,649           704         1070         DELINEATOR         EA         460           704         1071         FLEXIBLE DELINEATORS         EA         460           704         1072         FLEXIBLE DELINEATORS         EA         166           704         1080         STACKABLE VERTICAL PANELS         EA         166           704         1081         VERTICAL PANELS-BACK TO BACK         EA         12           704         1087         SEQUENCING ARROW PANEL-TYPE C         EA         2           704         1088         SEQUENCING ARROW PANEL-TYPE C-CROSSOVER         EA         2           704         1080         STACKABLE VERTICAL PANELS-STATE FURNISHED         EA         1           704         1080         DELITERATION OF PAVEMENT MARKING         SF         6,965           704	704	1000		MHK	3,250
704         1043         ATTEINOATION DEVICE-TYPE B-73         EA         2           704         1052         TYPE III BARRICADE         EA         63           704         1060         DELINEATOR DRUMS         EA         514           704         1067         TUBULAR MARKERS         EA         1,649           704         1070         DELINEATOR         EA         460           704         1072         FLEXIBLE DELINEATORS         EA         864           704         1080         STACKABLE VERTICAL PANELS         EA         166           704         1081         VERTICAL PANELS-BACK TO BACK         EA         12           704         1087         SEQUENCING ARROW PANEL-TYPE C         EA         2           704         1088         SEQUENCING ARROW PANEL-TYPE C         EA         2           704         1088         SEQUENCING ARROW PANEL-TYPE C-CROSSOVER         EA         2           704         1090         FLASHING BEACON         EA         2           704         1090         FLASHING BEACON         EA         1           706         0400         FIELD OFFICE         EA         1           706         0500	704	1000			14,096
1032         117 E III DATINICADE         EA         63           704         1060         DELINEATOR DRUMS         EA         514           704         1067         TUBULAR MARKERS         EA         1,649           704         1070         DELINEATOR         EA         460           704         1070         DELINEATOR         EA         460           704         1072         FLEXIBLE DELINEATORS         EA         864           704         1080         STACKABLE VERTICAL PANELS         EA         166           704         1081         VERTICAL PANELS-BACK TO BACK         EA         12           704         1087         SEQUENCING ARROW PANEL-TYPE C         EA         2           704         1088         SEQUENCING ARROW PANEL-TYPE C-CROSSOVER         EA         2           704         1090         FLASHING BEACON         EA         2           704         1090         FLASHING BEACON         EA         1           706         0400         FIELD OFFICE         EA         1           706         0400         FIELD OFFICE         EA         1           706         0600         CONTRACTOR'S LABORATORY         EA	704	1045			<u> </u>
1000         DELINEATOR DRUMS         EA         314           704         1067         TUBULAR MARKERS         EA         1,649           704         1070         DELINEATOR         EA         460           704         1070         DELINEATOR         EA         460           704         1072         FLEXIBLE DELINEATORS         EA         864           704         1080         STACKABLE VERTICAL PANELS         EA         166           704         1081         VERTICAL PANELS-BACK TO BACK         EA         12           704         1087         SEQUENCING ARROW PANEL-TYPE C         EA         2           704         1088         SEQUENCING ARROW PANEL-TYPE C-CROSSOVER         EA         2           704         1088         SEQUENCING ARROW PANEL-TYPE C-CROSSOVER         EA         2           704         1090         FLASHING BEACON         EA         2           704         1500         OBLITERATION OF PAVEMENT MARKING         SF         6,965           704         1500         OBLITERATION OF PAVEMENT MARKING         SF         6,965           704         0500         AGGREGATE LABORATORY         EA         1           706         0400	704	1002			<u> </u>
TOT         TODOLLIN MINIMULTS         EA         1,043           704         1070         DELINEATOR         EA         460           704         1072         FLEXIBLE DELINEATOR         EA         460           704         1072         FLEXIBLE DELINEATORS         EA         864           704         1080         STACKABLE VERTICAL PANELS         EA         166           704         1081         VERTICAL PANELS-BACK TO BACK         EA         12           704         1087         SEQUENCING ARROW PANEL-TYPE C         EA         2           704         1088         SEQUENCING ARROW PANEL-TYPE C-CROSSOVER         EA         2           704         1080         STACKABLE VERTICAL PANELS         EA         2           704         1080         SEQUENCING ARROW PANEL-TYPE C-CROSSOVER         EA         2           704         1090         FLASHING BEACON         EA         2           704         1500         OBLITERATION OF PAVEMENT MARKING         SF         6,965           704         1500         OBLITERATION OF PAVEMENT MARKING         SF         6,965           704         0400         FIELD OFFICE         EA         1           706	704	1060			1 6/0
10.7         10.70         DELINATION         10.70         10.70         DELINATION         10.70	704	1007		FA	1,049 260
TOT         TOTAL         TOTA         TOTAL         TOTAL         TO	704	1072		FA	961
701         1000         OTROMULE VENTION PANELS         Intervention         Intervention           704         1081         VERTICAL PANELS-BACK TO BACK         EA         12           704         1087         SEQUENCING ARROW PANEL-TYPE C         EA         2           704         1088         SEQUENCING ARROW PANEL-TYPE C-CROSSOVER         EA         2           704         1090         FLASHING BEACON         EA         2           704         1500         OBLITERATION OF PAVEMENT MARKING         SF         6,965           704         3510         PRECAST CONCRETE MED BARRIER-STATE FURNISHED         EA         79           706         0400         FIELD OFFICE         EA         1           706         0500         AGGREGATE LABORATORY         EA         1           706         0600         CONTRACTOR'S LABORATORY         EA         1           709         0100         GEOSYNTHETIC MATERIAL TYPE G         SY         17,904           709         0151         GEOSYNTHETIC MATERIAL TYPE RR         SY         4,298           709         0155         GEOSYNTHETIC MATERIAL TYPE RR         SY         112           714         0615         PIPE CONC REINF 24IN CL III <td< td=""><td>704</td><td>1080</td><td></td><td>FA</td><td>166</td></td<>	704	1080		FA	166
101         101 <td>704</td> <td>1081</td> <td>VERTICAL PANELS-BACK TO BACK</td> <td>FA</td> <td>12</td>	704	1081	VERTICAL PANELS-BACK TO BACK	FA	12
TOT         DESCRIPTION OF DATE: TYPE C-CROSSOVER         EA         2           704         1088         SEQUENCING ARROW PANEL-TYPE C-CROSSOVER         EA         2           704         1090         FLASHING BEACON         EA         2           704         1500         OBLITERATION OF PAVEMENT MARKING         SF         6,965           704         3510         PRECAST CONCRETE MED BARRIER-STATE FURNISHED         EA         79           706         0400         FIELD OFFICE         EA         1           706         0500         AGGREGATE LABORATORY         EA         1           706         0600         CONTRACTOR'S LABORATORY         EA         1           709         0100         GEOSYNTHETIC MATERIAL TYPE G         SY         17,904           709         0151         GEOSYNTHETIC MATERIAL TYPE R1         SY         4,298           709         0155         GEOSYNTHETIC MATERIAL TYPE RR         SY         112           714         0615         PIPE CONC REINF 24IN CL III         LF         194           714         0820         PIPE CONC REINF 36IN CL III         LF         80	704	1087	SEQUENCING ARROW PANEL-TYPE C	FA	2
TOT         DESCRIPTION OF MADE FINITE CONTROL OF CONTENT         EA         Z           704         1090         FLASHING BEACON         EA         2           704         1500         OBLITERATION OF PAVEMENT MARKING         SF         6,965           704         3510         PRECAST CONCRETE MED BARRIER-STATE FURNISHED         EA         79           706         0400         FIELD OFFICE         EA         1           706         0500         AGGREGATE LABORATORY         EA         1           706         0600         CONTRACTOR'S LABORATORY         EA         1           709         0100         GEOSYNTHETIC MATERIAL TYPE G         SY         17,904           709         0151         GEOSYNTHETIC MATERIAL TYPE R1         SY         4,298           709         0155         GEOSYNTHETIC MATERIAL TYPE RR         SY         112           714         0615         PIPE CONC REINF 24IN CL III         LF         194           714         0820         PIPE CONC REINF 30IN CL III         LF         56           714         0905         PIPE CONC REINF 36IN CL III         LF         80	704	1088	SEQUENCING ARROW PANFI - TYPE C-CROSSOVER	FA	2
704         1500         OBLITERATION OF PAVEMENT MARKING         SF         6,965           704         3510         PRECAST CONCRETE MED BARRIER-STATE FURNISHED         EA         79           706         0400         FIELD OFFICE         EA         1           706         0500         AGGREGATE LABORATORY         EA         1           706         0600         CONTRACTOR'S LABORATORY         EA         1           709         0100         GEOSYNTHETIC MATERIAL TYPE G         SY         17,904           709         0151         GEOSYNTHETIC MATERIAL TYPE R1         SY         4,298           709         0155         GEOSYNTHETIC MATERIAL TYPE RR         SY         112           714         0615         PIPE CONC REINF 24IN CL III         LF         194           714         0820         PIPE CONC REINF 30IN CL III         LF         56           714         0905         PIPE CONC REINF 36IN CL III         LF         80	704	1090	FLASHING BEACON	EA	2
704         3510         PRECAST CONCRETE MED BARRIER-STATE FURNISHED         EA         79           706         0400         FIELD OFFICE         EA         1           706         0500         AGGREGATE LABORATORY         EA         1           706         0600         CONTRACTOR'S LABORATORY         EA         1           709         0100         GEOSYNTHETIC MATERIAL TYPE G         SY         17,904           709         0151         GEOSYNTHETIC MATERIAL TYPE R1         SY         4,298           709         0155         GEOSYNTHETIC MATERIAL TYPE RR         SY         112           714         0615         PIPE CONC REINF 24IN CL III         LF         194           714         0905         PIPE CONC REINF 36IN CL III         LF         80	704	1500	OBLITERATION OF PAVEMENT MARKING	SF	6.965
706         0400         FIELD OFFICE         EA         1           706         0500         AGGREGATE LABORATORY         EA         1           706         0600         CONTRACTOR'S LABORATORY         EA         1           709         0100         GEOSYNTHETIC MATERIAL TYPE G         SY         17,904           709         0151         GEOSYNTHETIC MATERIAL TYPE R1         SY         4,298           709         0155         GEOSYNTHETIC MATERIAL TYPE RR         SY         112           714         0615         PIPE CONC REINF 24IN CL III         LF         194           714         0820         PIPE CONC REINF 36IN CL III         LF         56           714         0905         PIPE CONC REINF 36IN CL III         LF         80	704	3510	PRECAST CONCRETE MED BARRIER-STATE FURNISHED	EA	79
706         0500         AGGREGATE LABORATORY         EA         1           706         0600         CONTRACTOR'S LABORATORY         EA         1           709         0100         GEOSYNTHETIC MATERIAL TYPE G         SY         17,904           709         0151         GEOSYNTHETIC MATERIAL TYPE R1         SY         4,298           709         0155         GEOSYNTHETIC MATERIAL TYPE RR         SY         112           714         0615         PIPE CONC REINF 24IN CL III         LF         194           714         0820         PIPE CONC REINF 30IN CL III         LF         56           714         0905         PIPE CONC REINF 36IN CL III         LF         80	706	0400	FIELD OFFICE	EA	1
706         0600         CONTRACTOR'S LABORATORY         EA         1           709         0100         GEOSYNTHETIC MATERIAL TYPE G         SY         17,904           709         0151         GEOSYNTHETIC MATERIAL TYPE G         SY         4,298           709         0155         GEOSYNTHETIC MATERIAL TYPE R1         SY         4,298           709         0155         GEOSYNTHETIC MATERIAL TYPE RR         SY         112           714         0615         PIPE CONC REINF 24IN CL III         LF         194           714         0820         PIPE CONC REINF 30IN CL III         LF         56           714         0905         PIPE CONC REINF 36IN CL III         LF         80	706	0500	AGGREGATE LABORATORY	EA	1
709         0100         GEOSYNTHETIC MATERIAL TYPE G         SY         17,904           709         0151         GEOSYNTHETIC MATERIAL TYPE R1         SY         4,298           709         0155         GEOSYNTHETIC MATERIAL TYPE R1         SY         4,298           709         0155         GEOSYNTHETIC MATERIAL TYPE RR         SY         112           714         0615         PIPE CONC REINF 24IN CL III         LF         194           714         0820         PIPE CONC REINF 30IN CL III         LF         56           714         0905         PIPE CONC REINF 36IN CL III         LF         80	706	0600	CONTRACTOR'S LABORATORY	EA	1
709         0151         GEOSYNTHETIC MATERIAL TYPE R1         SY         4,298           709         0155         GEOSYNTHETIC MATERIAL TYPE RR         SY         112           714         0615         PIPE CONC REINF 24IN CL III         LF         194           714         0820         PIPE CONC REINF 30IN CL III         LF         56           714         0905         PIPE CONC REINF 36IN CL III         LF         80	709	0100	GEOSYNTHETIC MATERIAL TYPE G	SY	17,904
709         0155         GEOSYNTHETIC MATERIAL TYPE RR         SY         112           714         0615         PIPE CONC REINF 24IN CL III         LF         194           714         0820         PIPE CONC REINF 30IN CL III         LF         56           714         0905         PIPE CONC REINF 36IN CL III         LF         80	709	0151	GEOSYNTHETIC MATERIAL TYPE R1	SY	4,298
714         0615         PIPE CONC REINF 24IN CL III         LF         194           714         0820         PIPE CONC REINF 30IN CL III         LF         56           714         0905         PIPE CONC REINF 36IN CL III         LF         80	709	0155	GEOSYNTHETIC MATERIAL TYPE RR	SY	112
714         0820         PIPE CONC REINF 30IN CL III         LF         56           714         0905         PIPE CONC REINF 36IN CL III         LF         80	714	0615	PIPE CONC REINF 24IN CL III	LF	194
714 0905 PIPE CONC REINF 36IN CL III LF 80	714	0820	PIPE CONC REINF 30IN CL III	LF	56
	714	0905	PIPE CONC REINF 36IN CL III	LF	80

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SPEC         CODE         THE DESCRIPTION         UNIT         TOTAL           74         030         PEC CODE CREATE CALL         EA         6           74         030         PEC CODE CREATE CALL         FER CODE CREATE CALL         FER CODE CREATE CALL           74         040         PEC CODE CREATE PED STRUCTURE CALL         FER CODE CREATE PED STRUCTURE CALL         FER CODE CREATE PED STRUCTURE CALL           74         040         PEC CODE CREATE PED STRUCTURE CALL         FER CODE CREATE PED STRUCTURE CALL         FER CODE CREATE PED STRUCTURE CALL           74         040         PEC CODE CREATE PED STRUCTURE CALL         FER CODE CREATE PED STRUCTURE CALL         FER CODE CREATE PED STRUCTURE CALL<			ESTIMATE OF QUANTITIES						
Pit       1005       PHE CODE KIN GAVE AND CONTROL IN THE CONCOUNT OF A PROVIDED AND CONCOUNT OF A PROVIDED	SPEC	CODE	ITEM DESCRIPTION	UNIT	TOTAI	-			
1         1         1         1           74         303         FEO SECTION/REVEALS FROM CONCENTION         6A         1           74         304         FEO SECTION/REVEALS         FEO SECTION/REVEALS         FEO SECTION/REVEALS           744         304         FEO SECTION/REVEALS         FEO SECTION/REVEALS         FEO SECTION/REVEALS         FEO SECTION/REVEALS           745         400         FEO SECTION/REVEALS         FEO SECTION/REVEALS         FEO SECTION/REVEALS         FEO SECTION/REVEALS           745         401         FEO SECTION/REVEALS<	714	1005	PIPE CONC REINF 42IN CL III	LF	6	_			
1         1         2         4         4           7         3353         FN3 BECI COUCHEND SIM         FA         4           7         3353         FN3 BECI COUCHEND SIM         FA         1           7         4         3353         FN3 BECI COUCHEND SIM         FA         1           7         4         535         FN3 BECI TANCENER ALL         FN3         FN3           7         4         535         FN3 BECI TANCENER ALL         FN3         FN3           7         4         FN3 <edulut< td="">         FN3<edulut< td="">         FN3<edulut< td="">         FN3<edulut< td="">           7         4         FN3<edulut< td="">         FN3<edulut< td="">         FN3<edulut< td="">         FN3<edulut< td="">           7         4         FN3<edulut< td="">         FN3<edulut< td="">         FN3<edulut< td="">         FN3<edulut< td="">           7         4         FN3<edulut< td="">         FN3<edulut< td="">         FN3<edulut< td="">         FN3<edulut< td="">           7         6         FN3<edulut< td="">         FN3<edulut< td="">         FN3<edulut< td="">         FN3<edulut< td="">           7         6         FN3<edulut< td="">         FN3<edulut< td="">         FN3<edulut< td="">         FN3<edulut< td="">           7         6         FN3<edulut< td="">         FN3<edulut< td="">         FN3<edulut< td="">         FN3<edulut< td="">     &lt;</edulut<></edulut<></edulut<></edulut<></edulut<></edulut<></edulut<></edulut<></edulut<></edulut<></edulut<></edulut<></edulut<></edulut<></edulut<></edulut<></edulut<></edulut<></edulut<></edulut<></edulut<></edulut<></edulut<></edulut<></edulut<></edulut<></edulut<></edulut<>	714	3023	END SECT-TRAVERSABLE REINF. CONC.24IN	EA	11				
TY4       3005       END SECT CONCERTER SMM       FA       13         TY4       3005       END SECT CONCERTER SMM       FA       1         TY4       3005       RELOY OFFEAU TYPES A SUBSE       FA       1         TY4       3005       RELOY OFFEAU TYPES A SUBSE       FA       1         TY4       3005       RELOY OFFEAU TYPES A SUBSE       FA       1         TY4       3005       RELOY OFFEAU TYPES A SUBSE       FA       1         TY4       3005       RELOY OFFEAU TYPES A SUBSE       FA       1         TY4       3005       RELOY OFFEAU TYPES A SUBSE       FA       1         TY4       3005       RELOY OFFEAU TYPES A SUBSE       FA       1         TY4       3005       RELOY OFFEAU TYPES A SUBSE       FA       1         TY4       3005       RELOY OFFEAU TYPES A SUBSE       FA       1         TY4       3016       RELOY OFFEAU TYPES A SUBSE       FA       10         TY4	714	3030 3033	END SECT-CONC REINF 30IN END SECT-TRAVERSABLE REINF. CONC.30IN	EA EA	4				
1 → 1 → 200         EMD SECTOR EBUNK 2001         EA         1           74         700         PPE PON 2011	714	3035	END SECT-CONC REINF 36IN	EA	13				
174       3955       FMD BOCK CONCRETE MANN MANN       EA       14         744       164       144         744       1650       RELAT VIPE ALL YIPES & 2020       14       14         744       1660       RELAT VIPE ALL YIPES & 2020       14       14         744       1660       RELAT VIPE ALL YIPES & 2020       14       15       74         744       1660       RELAT VIPE ALL YIPES & 2020       14       14       14         744       1660       RELAT VIPE ALL YIPES & 2020       14       14       14         744       1660       RELAT VIPE ALL YIPES & 2020       14       14       14         744       1680       RELAT VIPE ALL YIPES & 2020       14       14         745       013       ROUTH ALL YIPE ALL YIPES & 2020       14       16         745       013       ROUTH ALL YIPE ALL YIPES & 2020       14       16         745       013       ROUTH ALL YIPE ALL YIPES & 2020       14       16         745       013       ROUTH ALL YIPE ALL YIPES & 2020       15       15       16         745       013       ROUTH ALL YIPE ALL YIPES & 2020       15       16       17       16       17       17	714	3036	END SECT-CONC REINF 42IN	EA	1				
Trid         Cost         Trid         Status         Trid         Status           Trid         Status         Status         Trid         Trid         Status         Trid	714	3045 4122	END SECT-CONC REINF 48IN PIPE CONDUIT 42IN-APPROACH	EA	1				
Image: Provide the start of the start	714	7030	PIPE PVC 12IN	LF	311				
TH         9860         RELAY END SECTIONALL TYPE & SIZES         EA         2           TH         9860         RESTAL CONCERT         FA         1           TH         9860         RESTAL CONCERT         FA         1           TH         9860         RESTAL CONCERT         FA         1           TH         9860         REMORET IN MONUMENTS         FA         1           TH         9860         REMORET IN MONUMENTS         FA         1           TH         9860         REMORET IN MONUMENTS         FA         1           TH         FA         FA         1         6         1           TH         FA         FA         FA         1         1           TH         FA         FA         1         1         1           TH         FA         FA         FA         1         1	714	9640 9659	RELAY PIPE-ALL TYPES & SIZES REMOVE & RELAY PIPE-ALL TYPES & SIZES		1,726				
124         125         125         126         126           125         0135         ROM PIN REFERENCE MONUMENTS         EA         1           125         0135         ROM PIN REFERENCE INFORMATION REPORTS         EA         1           125         0141         CUBR RUTTER-TYPE INFORMATION REPORTS         EA         1           125         0155         COMMENT STREAM PROVEMENT         EA         7           125         0155         COMMENT STREAM PROVEMENT         EA         7           126         0160         COMMENT STREAM PROVEMENT         EA         10           124         0155         COMMENT STREAM PROVEMENT         EA         10           124         0160         COMMENT STREAM PROVEMENT         EA         10           124         0160         COMMENT STREAM PROVEMENT         EA         11           124         0160         COMMENT STREAM PROVEMENT         EA         11 <t< td=""><td>714</td><td>9660</td><td>REMOVE &amp; RELAY END SECTION-ALL TYPE &amp; SIZES</td><td>EA</td><td>2</td><td></td><td></td><td></td><td></td></t<>	714	9660	REMOVE & RELAY END SECTION-ALL TYPE & SIZES	EA	2				
17:00       01:24       ALLONMENT MONLIMENTS       EA       1         17:22       01:24       ALLONMENT MONLIMENTS       EA       1         17:22       01:34       PERLEALE MONENTS       EA       1         17:22       01:34       PERLEALE MONENTS       EA       1         17:20       01:34       PERLEALE MONENTS       EA       1         17:20       01:37       PERLEAT PRECAST CONCRETE MEDIAN DRAIN       EA       1         17:20       01:37       PERLEAT PRECAST CONCRETE MEDIAN DRAIN       EA       1         17:20       01:37       PERLEAT PRECAST CONCRETE MEDIAN DRAIN       EA       1         17:20       01:37       PERLEAT PRECAST CONCRETE MEDIAN DRAIN       EA       1         17:20       01:37       PERLEAT PRECAST CONCRETE MEDIAN DRAIN       EA       1         17:20       01:37       PERLEAT PRECAST CONCRETE MEDIAN DRAIN       EA       4         17:20       01:37       PERLEAT PRECAST CONCRETE MEDIAN DRAIN       EA       4       1         17:20       01:37       PERLEAT PRECAST CONCRETE MEDIAN DRAIN PRECESS       EA       2       1       1         17:20       01:30       CARST PRECAST PRECAST PRECEST PRECESS       EA       1 </td <td>714</td> <td>9900</td> <td>FLAP GATE 42IN</td> <td>EA</td> <td>3</td> <td></td> <td></td> <td></td> <td></td>	714	9900	FLAP GATE 42IN	EA	3				
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	720	0125	ALIGNMENT MONUMENTS	EA EA	1				
Image: Construct of the image is a second set of th	722	3485	CASTING MOUNTABLE CURB-TYPE A	EA	12				
Prise         Of So         MOUTTABLE CUERD & QUITTER-TYPE 1 SEC.A.         LF         4:80           782         0700         FERCE WOVER WIRE         E.A.         7.2           782         0110         FLAT SHEET FOR SIGNET TYPE NEETS SHEETING         S.F.         90           784         0112         FLAT SHEET FOR SIGNET TYPE NEETS SHEETING         S.F.         14           784         0118         DMANID GRADE DELIEATORS TYPE D         E.A.         18           784         0138         DMANID GRADE DELIEATORS TYPE D         E.A.         11           784         0136         DMANID GRADE DELIEATORS TYPE D         E.A.         11           784         0136         MITERIAT BULE PORTS TWING THE SHEETING         S.F.         11           784         0136         MITERIATINE DOTSTANDADID FORTWOO ROMERD         S.A.         11           784         0136         MITERIATINE DOTSTANDADID FORTWOO ROMERD         S.A.         12           784         0130	722	4581 0141	RELAY PRECAST CONCRETE MEDIAN DRAIN CURB & GUTTER-TYPE 1 SPECIAI	EA LF	<u>1</u> 60				
1000         PENDE #VOURNAME         PA         9,39           752         1200         CONNER SERVERY WOVEN WREE         EA         0           752         1200         CONNER SASEMBLY WOVEN WREE         EA         2           754         0100         FLAT SHEET FOR BORS YFER INFELSHEETING         SF         50           754         0110         FLAT SHEET FOR BORS YFER INFELSHEETING         SF         50           754         0120         FLAT SHEET FOR BORS YFER INFELSHEETING         SF         50           754         0130         FLAT SHEET FOR BORS YFER INFELSHEETING         SF         B0           754         0130         FDAT SHEET FOR BORS YFER INFELSHEETING         SF         FLAT SHEET FOR BORS YFER INFELSHEETING           754         0130         FDAT SHEET FOR SHEET FOR SHEETING SHEETING         FLAT SHEETING         SF         SF           754         0131         FDAT SHEET FOR SHEETING SHEETING         FLAT SHEETING         SF         SF         SF           754         0130         RABALE SHEET FOR SHOW FOR YFF E         FLAT SHEETING         SF         SF           754         0130         READER SHARE SHANDARD PIE         FLAT SHEETING         SF         SF           754         0100	748	0150	MOUNTABLE CURB & GUTTER-TYPE 1 SEC A	LF	480				
TY22     3120     CONNER ASSEMBLY WOVEN WIRE     EA     10       TY22     4120     DOULL BRACE ASSEMBLY WOVEN WIRE     EA     2       TY22     4120     DOULL BRACE ASSEMBLY WOVEN WIRE     EA     4       TY24     4110     FULL STEEL POST SCIENCE MAY PULLETING     SP     60       TY24     0136     DLANCHO GRADE DELINATIONS TYPE B     EA     04       TY24     0136     DLANCHO GRADE DELINATIONS TYPE B     EA     04       TY24     0136     DLANCHO GRADE DELINATIONS TYPE B     EA     04       TY24     0136     DLANCHO GRADE DELINATIONS TYPE B     EA     04       TY24     0136     DLANCHO GRADE DELINATIONS TYPE B     EA     04       TY24     0210     GAUN STELE POST-STANDARD PIPE P     EA     1       TY24     0210     CAUN STELE POST-STANDARD PIPE P     EA     1       TY24     0210     CAUN STELE POST-STANDARD PIPE P     EA     1       TY24     0210     CAUN STELE POST-STANDARD PIPE P     EA     1       TY24     0210     CAUN STELE POST-STANDARD PIPE P     EA     20       TY24     0210     RUBE POST STANDARD PIPE P     EA     1       TY24     1010     REMOVE POST STANDARD PIPE P     EA     20	752	0700	FENCE TERMINAL	EA	9,139				
Instruction         Instruction <thinstruction< th=""> <thinstruction< th=""></thinstruction<></thinstruction<>	752	3120		EA	10				
754       0112       FLAT SHEET FOR SIGNS-TYPE W REFL SHEETING       \$\$F       \$99         754       0103       DIMAKING GRADD DE LIKEATORS-TYPE D       \$6.4       64         754       0103       DIMAKING GRADD DE LIKEATORS-TYPE D       \$6.4       64         754       0103       DIMAKING GRADD DE LIKEATORS-TYPE D       \$6.4       64         754       0103       DIMAKING GRADD DE LIKEATORS-TYPE D       \$6.4       63         754       0124       GALV STELP POST-STANDARD PPE       \$F       198         754       0124       GALV STELP POST-STANDARD PPE       \$F       198         754       0104       OLACOS ALL STELP POST-STANDARD PPE       \$F       19         754       0101       OLACOS ALL STARE POST-STANDARD PPE       \$F       20         754       1001       CLASS ALC CONCRET-E SINDUDATION       \$F       20         754       1001       CLASS ALC CONCRET-E SINDUDER       \$F       20       20         754       1001       POST NOT CONLINATION       \$F       20       20         754       1001       POST NOT NOT NOT NOT NOT NOT NOT NOT NOT NO	752	0110	FLAT SHEET FOR SIGNS-TYPE XI REFL SHEETING	SF	50				
EPS         Disk         Disk <thdisk< th="">         Disk         Disk         D</thdisk<>	754	0112	FLAT SHEET FOR SIGNS-TYPE IV REFL SHEETING	SF	59				
734       0193       DIAMOND GRADE DELINEATORS TYPE D       EA       18         734       0193       DIAMOND GRADE DELINEATORS TYPE D       EA       12         734       0193       DIAMOND GRADE DELINEATORS TYPE D       EA       19         734       0534       DALV GRADE DELINEATORS TYPE B       EA       116         734       0535       PARLE POSTS WERHETING       EA       11         734       0636       DIAMOND GRADE DELINEATORS TYPE B       EA       11         734       0636       DIAMOND GRADE DELINEATORS TYPE B       EA       11         734       0636       DIAMOND GRADE DELINEATORS TYPE B       EA       11         734       0636       OBLECT MARKERS TYPE PE       EA       1         734       1040       PROVE OVERTED SIGNETON       EA       1         734       1040       PROVE OVERTES NOULDER       EA       1         734       1040       PWIT MK PAINTED AN UNE       LF       25.10         732       1034       PWIT MK PAINTED SAN UNE       LF       1.00         732       1034       PWIT MK PAINTED AN UNE       LF       1.00         732       1034       PWIT MK PAINTED AN UNRE       LF	754	0195	DIAMOND GRADE DELINEATORS-TIPE A	EA	64				
Triad         Option         GALV STREEL POSTS-STANDARD PIPE         LF         139           Triad         GALV STREEL POSTS-WARPE POSTSTWO OR MORE)         LF         692           Triad         Object MARRERS-TYPE ID         EA         11           Triad         Object MARRERS-TYPE ID         EA         11           Triad         Object MARRERS-TYPE ID         EA         3           Triad         Object MARRERS-TYPE ID         EA         2           Triad         Object MARRERS-TYPE ID         EA         2           Triad         Triad         Triad         Triad         2           Triad         PARAMERT MARRERS         EA         2         2           Triad         PARAMERT MARRERS         EA         2         2         1           Triad         PARAMERERAND GUARDRALEND TERMINAL         LF         1<	754	0198	DIAMOND GRADE DELINEATORS-TYPE D	EA FA	18				
754       024       0	754	0210	GALV STEEL POST-STANDARD PIPE	LF	139				
254       0556       INTERSTATE MUE POSTS-TYPE IB       EA       11         754       0601       OBLECT MARKERS - CULVERTS       EA       3         754       0601       OBLECT MARKERS - CULVERTS       EA       69         754       1000       CLASS AC CONCRETE SIGN FOUNDATIONS       EA       21         754       1100       CLASS AC CONCRETE SIGN FOUNDATION       EA       21         754       1101       REMOVE SIGN FOUNDATION       EA       21         754       1100       REMOVE SIGN FOUNDATION       EA       21         755       1001       RUMEE STRIP - CONCRETE SIGN FOUNDATION       EA       20         752       0103       FYMAT MK PAINTED MESSAGE       EA       28,022         752       0103       FYMAT MK PAINTED MARKERS       EA       28,021         752       1104       PVMT MK PAINTED BILLINE       LF       25,13         752       1103       FWMAT MARDARDAL NOTSION       EA       10         764       1050       RESET W-BEAM GUARDRAIL       LF       1500         764       1050       REMOVE CONCRETE SAFETY SHAPE TRANSITION       EA       12         764       1050       REVOVE CONCRETE SAFETY SHAPE TRANSITION <td>754</td> <td>0214</td> <td>GALV STEEL POSTS-W-SHAPE POSTS(TWO OR MORE) PANEL FOR SIGNS-TYPE IV REFLECTIVE SHEETING</td> <td>LF</td> <td>692</td> <td></td> <td></td> <td></td> <td></td>	754	0214	GALV STEEL POSTS-W-SHAPE POSTS(TWO OR MORE) PANEL FOR SIGNS-TYPE IV REFLECTIVE SHEETING	LF	692				
754     0801     09J/ECT MARKENS - VYTE.     EA     3       754     0807     09J/ECT MARKENS - UVERTIS     EA     3       754     1006     CALSS AE CONCRETE SIGN     CA     3       754     1006     CALSS AE CONCRETE SIGN     CA     3       754     1000     CALSS AE CONCRETE SIGN     CA     3       754     1000     CALSS AE CONCRETE SHOULDER     MILE     20.84       752     0100     PVMT MR PAINTED AIN NERSSAGE     EA     20.84       752     0103     PVMT MR PAINTED AIN NERSSAGE     EA     20.84       752     0103     PVMT MR PAINTED AIN NERSSAGE     EA     20.92       752     0103     PVMT MR PAINTED AIN NERSSAGE     EA     1.9       752     0103     PVMT MR PAINTED AIN NERS     EA     1.164       754     0131     WEBEAM GUARDRAIL     LF     1.900       754     0131     WEBEAM GUARDRAIL & POSTS     LF     1.900       764     1050     REMOVE CONCRETE SAFETY SHAPE TRANSITION     EA     20       764     1050     REMOVE CONCRETE SAFETY SHAPE TRANSITION     EA     12       900     1000     TEMPORARY STREAM DVERSION     EA     12       900     1000     AUVAGED BASE COURSE<	754	0556	INTERSTATE MILE POSTS-TYPE B	EA	11				
194     1100     CLASS AF CONCRETE SIGN FOUNDATIONS     CY     3.1       174     1104     REMOVE OVERHEAD SIGN STR BRIDGE MOUNTED     EA     2.3       1764     1200     REMOVE OVERHEAD SIGN STR BRIDGE MOUNTED     EA     1       1760     1001     RUMBUE STRIPS - CONCRETE SHOULDER     MILE     20.64       1720     0103     PVMT MC PAINTED ANSAGE     SF     8.2,5       1722     0100     RALMER STRIPS - CONCRETE SHOULDER     LF     2.2,511       1722     0100     PAINTED AN EARER     LF     2.2,511       1722     1108     PVMT MC PAINTED AN LINE     LF     1,164       1764     0145     W-BEAM GUARDRAL     EA     2.0       1764     0145     W-BEAM GUARDRAL     EA     2.0       1764     0145     W-BEAM GUARDRAL     POSTS     LF     1,008       1764     0145     REMOVE V-BEAM GUARDRAL     POSTS     LF     1,008       1764     0145     REMOVE V-BEAM GUARDRAL     POSTS     LF     1,008       1764     0145     REMOVE OVERCHET SAFET TRANSITION     EA     1       1764     0145     REMOVE STREEN CONCRETE SHOULDERS     A     1       1764     0100     SALVARDRAL & SOTSTON     EA     1	754	0801	OBJECT MARKERS - TYPE I OBJECT MARKERS - CULVERTS	EA	69				
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	754	1100	CLASS AE CONCRETE-SIGN FOUNDATIONS	CY	3.1				
Trian     Rumble STRIPS - CONCRETE SHOULDER     MILE     20.84       Trian     Concent Mersion     SF     82.5       Trian     Concent Mersion     EA     28.092       Trian     Concent Mersion     EA     24.       Trian     Concent Mersion     EA     24.       Trian     Concent Mersion     EA     4.       Trian     Concent Mersion     EA     1.       Trian     Concent Mersion     EA     1.       Trian     Concent Mersion     Concent Mersion     EA     1.       Trian     Concent Mersion     Concent Mersion     EA     1.       Trian     Description     Unit     Total     Concent Mersion     Concent Mersion       Trian     Description     Unit     Total     Concent Mersion     Concent Mersion <t< td=""><td>754</td><td>1104</td><td>REMOVE SIGN FOUNDATION REMOVE OVERHEAD SIGN STR BRIDGE MOUNTED</td><td>EA</td><td>23</td><td></td><td></td><td></td><td></td></t<>	754	1104	REMOVE SIGN FOUNDATION REMOVE OVERHEAD SIGN STR BRIDGE MOUNTED	EA	23				
192         0203         FAIGED PACEMENT WARRES         25.         95.092           1762         0430         PHORT TERM AIN. UNE-TYPE NR         E         F         722.011           1762         1034         PVAT MK PAINTED AIN LINE         IF         22.518           1762         1034         PVAT MK PAINTED AIN LINE         IF         2.518           1762         1103         PVAT MK PAINTED 24IN LINE         IF         1.508           1764         10145         PVAT MK PAINTED 24IN LINE         IF         1.908           1764         10145         W-BEAM GUARDRAIL         EA         24           1764         1050         RESET W-BEAM GUARDRAIL         EA         4           1764         1050         REMOVE END TREATMENT & TRANSITION         EA         4           1764         1050         REMOVE END TREATM DIVERSION         EA         1           1990         10400 CHOORARY STREAM DIVERSION         EA         1         1           1990         04000         PIPE CLEANOUT         EA         1         1           1990         0400         PIPE CLEANOUT         EA         1         1           1030         0105         SILVAGED BASE COURSE	760	0001	RUMBLE STRIPS - CONCRETE SHOULDER	MILE	20.84				
Trice       0430       SHORT TERM 4IN LINE-TYPE NR       LF       762,271         Trice       1104       PVMT MK PAINTED 4IN LINE       LF       2,5111         Trice       1104       PVMT MK PAINTED 8IN LINE       LF       130         Trice       1104       PVMT MK PAINTED 2IN LINE       LF       130         Trice       1124       PVMT MK PAINTED 2IN LINE       LF       1,164         Trice       1124       PVMT MK PAINTED 2IN LINE       LF       1,908         Trice       1124       PVMT MK PAINTED 2IN LINE       LF       1,908         Trice       1164       UPMT MK PAINTED 2IN LINE       LF       1,908         Trice       1050       RESERV BEAM GUARDRAIL & POSTS       LF       1,908         Trice       201       REMOVE END TREAMIENT AT RANSITION       EA       4         Trice       201       REMOVE END TREAMINERT ATRANSITION       EA       1         390       0400       PIPE CLEANOUT       EA       1         216       0100       WATER       M GAL       609         3550       0105       61N NON-REINF CONCRETE PAVEMENT CLAE       SY       42,786         ALTERNATE B: CONCRETE MOLIDER W 8' ASPHALT OUTSIDE SHOULDER	762	0103	RAISED PAVEMENT MARKERS	EA	28,092	2			
Total         Total         Total           722         1108         PVAT MK PAINTED SHIN LINE         LF         2519           722         1124         PVAT MK PAINTED SHIN LINE         LF         130           724         1015         REMOVE V-BEAM GUARDRAIL         LF         1304           764         0151         REMOVE V-BEAM GUARDRAIL & POSTS         LF         1908           764         1050         RESET W-BEAM GUARDRAIL & POSTS         LF         600           764         1090         REMOVE END TREATMENT & TRANSITION         EA         2           900         1000         TERMOVE END TREATMENT & TRANSITION         EA         1           990         0400         PIPE CLEANOUT         EA         12	762	0430	SHORT TERM 4IN LINE-TYPE NR	LF	76,27	1			
Trial       PVMT MK PAINTED 24IN LINE       LF       130         764       0131       W-BEAM GUARDRAIL       END TERMINAL       EA       24         764       0145       W-BEAM GUARDRAIL & POSTS       LF       1.908         764       0151       REMOVE W-BEAM GUARDRAIL & POSTS       LF       800         764       1050       RESET W-BEAM GUARDRAIL & POSTS       LF       800         764       1090       REMOVE CONCRETE SAFETY SHAPE TRANSITION       EA       4         764       1090       REMOVE CONCRETE SAFETY SHAPE TRANSITION       EA       1         990       0400       PIPE CLEANOUT       EA       12         ALTERNATE A: CONCRETE SHOULDERS         SPEC CODE ITEM DESCRIPTION UNIT TOTAL         216       0100       WATER       M GAL       609         302       0100       SALVAGED BASE COURSE       TON       30,453         550       0105       GIN NON-REINF CONCRETE PAVEMENT CLAE       SY       42,786         SPEC CODE ITEM DESCRIPTION       UNIT       TOTAL         216       0100       WATER       M GAL       785         302       0100       SALVAGED BASE COURSE       TON       39,244	762	1104	PVMT MK PAINTED 8IN LINE	LF	2,518				
Téd         OTAG         W-BEAN GUARDRAIL         END         TERMINAL         EA         24           Téd         0151         REMOVE W-BEAM GUARDRAIL         END         1908         1900           Téd         1050         RESET W-BEAM GUARDRAIL         LF         1908           Téd         1900         REMOVE END REAM GUARDRAIL         LF         600           Téd         2081         REMOVE END REAMENTS TREAM DIVERSION         EA         4           160         1200         TEMPORARY STREAM DIVERSION         EA         1           990         0400         PIPE CLEANOUT         EA         12           ALTERNATE A: CONCRETE SHOULDERS           SPEC         CODE         ITEM DESCRIPTION         UNIT         TOTAL           216         0100         WATER         M GAL         609           302         0105         6IN NON-REINF CONCRETE PAVEMENT CLAE         SY         42.786           ALTERNATE B: CONCRETE MEDIAN SHOULDER W/ 8' ASPHALT OUTSIDE SHOULDER           SPEC         CODE         ITEM DESCRIPTION         UNIT         TOTAL           216         0100         WATER         M GAL         785           302         0100         SALVAGED	762	<u>1124</u> 0131	PVMT MK PAINTED 24IN LINE W-BEAM GUARDRAII		130				
1/64       0151       REMOVE W-BEAM GUARDRAL       LP       1,908         1/64       1990       REMOVE CONCRETE SAFETY SHAPE TRANSITION       EA       4         1/64       1990       REMOVE CONCRETE SAFETY SHAPE TRANSITION       EA       4         1/64       1990       REMOVE CONCRETE SAFETY SHAPE TRANSITION       EA       20         900       1000       TEMPORARY STREAM DIVERSION       EA       1         990       0400       PIPE CLEANOUT       EA       12    ALTERNATE A: CONCRETE SHOULDERS          SPEC       CODE       ITEM DESCRIPTION       UNIT       TOTAL         216       0100       SALVAGED BASE COURSE       TON       30.453         550       0105       6IN NON-REINF CONCRETE PAVEMENT CL AE       SY       42,786    ALTERNATE B: CONCRETE MEDIAN SHOULDER W/ 8' ASPHALT OUTSIDE SHOULDER          SPEC       CODE       ITEM DESCRIPTION       UNIT       TOTAL         216       0100       SALVAGED BASE COURSE       TON       39.244         401       0050       TACK COAT       GAL       2.220         401       0050       TACK COAT       GAL       2.220         401       0050       TACK COAT <td< td=""><td>764</td><td>0145</td><td>W-BEAM GUARDRAIL END TERMINAL</td><td>EA</td><td>24</td><td></td><td></td><td></td><td></td></td<>	764	0145	W-BEAM GUARDRAIL END TERMINAL	EA	24				
764       1990       REMOVE CONCRETE SAFETY SHAPE TRANSITION       EA       4         764       2081       REMOVE CONCRETE SAFETY SHAPE TRANSITION       EA       20         900       1000       TEMPORARY STREAM DIVERSION       EA       1         990       0400       PIPE CLEANOUT       EA       1         ALTERNATE A: CONCRETE SHOULDERS         SPEC CODE ITEM DESCRIPTION       UNIT       TOTAL         216       0100       WATER       M GAL       609         302       0105       6IN NON-REINF CONCRETE PAVEMENT CL AE       SY       42,786         ALTERNATE B: CONCRETE MEDIAN SHOULDER W/ & ASPHALT OUTSIDE SHOULDER         SPEC       CODE       ITEM DESCRIPTION       UNIT       TOTAL         216       0100       WATER       M GAL       765         302       0105       6IN NON-REINF CONCRETE PAVEMENT CL AE       SY       42,786         SPEC       CODE       ITEM DESCRIPTION       UNIT       TOTAL         216       0100       WATER       M GAL       765         302       0100       SALVAGED BASE COURSE       TON       39,274 </td <td>764</td> <td>0151 1050</td> <td>REMOVE W-BEAM GUARDRAIL &amp; POSTS RESET W-BEAM GUARDRAIL</td> <td></td> <td>1,908</td> <td></td> <td></td> <td></td> <td></td>	764	0151 1050	REMOVE W-BEAM GUARDRAIL & POSTS RESET W-BEAM GUARDRAIL		1,908				
194         2001         REINVOLE ENUL IREAMINE INT & IRANSITION         EA         20           990         0400         PIPE CLEANOUT         EA         1           ALTERNATE A: CONCRETE SHOULDERS           ALTERNATE A: CONCRETE SHOULDERS           SPEC         CODE         ITEM DESCRIPTION         UNIT         TOTAL           216         0100         WATER         M GAL         609         30,453         550         300.5         610 NON-REINF CONCRETE PAVEMENT CL AE         SY         42,786           ALTERNATE B: CONCRETE MEDIAN SHOULDER W/ 8' ASPHALT OUTSIDE SHOULDER           SPEC         CODE         ITEM DESCRIPTION         UNIT         TOTA         30,453           302         0105         610 NON-REINF CONCRETE PAVEMENT CL AE         SY         42,786           ALTERNATE B: CONCRETE MEDIAN SHOULDER W/ 8' ASPHALT OUTSIDE SHOULDER           SPEC         CODE         ITEM DESCRIPTION         UNIT         TOA         39,244           401         0050         TACK COAT         GAL         2,200         GAL         2,201         GAL         1-29 - N of Galchutt Exit to Christine	764	1990	REMOVE CONCRETE SAFETY SHAPE TRANSITION	EA	4				
990         0400         PIPE CLEANOUT         EA         12           ALTERNATE A: CONCRETE SHOULDERS           ALTERNATE A: CONCRETE SHOULDERS           SPEC         CODE         ITEM DESCRIPTION         UNIT         TOTAL           216         0100         WATER         M GAL         609           302         0100         SALVAGED BASE COURSE         TON         30,453           SSEC         CODE         ITEM DESCRIPTION         UNIT         TOTAL           216         0100         WATER         SY         42,786           ALTERNATE B: CONCRETE MEDIAN SHOULDER W/ 8' ASPHALT OUTSIDE SHOULDER           SPEC         CODE         ITEM DESCRIPTION         UNIT         TOTAL           216         0100         WATER         M GAL         785           302         0100         SALVAGED BASE COURSE         TON         39,244           401         0050         TACK COAT         GAL         2,204           401         0060         PRIME COAT         GAL         12,034           430         1000         CORE DSAMPLE         EA         109           430         5803	900	1000		EA	1				
ALTERNATE A: CONCRETE SHOULDERSSpecCODEITEM DESCRIPTIONUNITTOTAL2160100WATERM GAL6093020100SALVAGED BASE COURSETON30,453SOURCETE MEDIAN SHOULDER W/ & ASPHALT OUTSIDE SHOULDERSpecCODEITEM DESCRIPTIONUNITTOTAL2160100WATERM GAL7853020100SALVAGED BASE COURSETON39,2444010050TACK COATGAL2,2204010050TACK COATGAL10094010050TACK COATGAL10094010050TACK COATGAL10094010050BITUMINOUS LABORATORYEA10094010050BITUMINOUS LA	990	0400	PIPE CLEANOUT	EA	12				
ALTERNATE A: CONCRETE SHOULDERS SPEC       CODE       ITEM DESCRIPTION       UNIT       TOTAL         216       0100       WATER       M GAL       609         302       0100       SALVAGED BASE COURSE       TON       30,453         550       0105       6IN NON-REINF CONCRETE PAVEMENT CL AE       SY       42,786         ALTERNATE B: CONCRETE MEDIAN SHOULDER W/ 8' ASPHALT OUTSIDE SHOULDER         SPEC       CODE       ITEM DESCRIPTION       UNIT       TOTAL         216       0100       WATER       M GAL       785         302       0100       SALVAGED BASE COURSE       TON       39,244         401       0050       TACK COAT       GAL       2,220         401       0050       TACK COAT       GAL       2,204         430       0040       SUPERPAVE FAA 40       TON       9,877         430       1000       CORED SAMPLE       EA       109         430       1000       CORED SAMPLE       EA       1         430       1000       CORED SAMPLE       EA       1									
SPECCODEITEM DESCRIPTIONUNITTOTAL2160100WATERM GAL6093020100SALVAGED BASE COURSETON30,45355001056IN NON-REINF CONCRETE PAVEMENT CLAESY42,786ALTERNATE B: CONCRETE MEDIAN SHOULDER W/ 8' ASPHALT OUTSIDE SHOULDERSPECCODEITEM DESCRIPTIONUNITTOTAL2160100WATERM GAL7853020100SALVAGED BASE COURSETON39,2444010050TACK COATGAL2,2204010060PRIME COATGAL12,03443001000CORED SAMPLEEA1094305803PG 58S-28 ASPHALT CEMENTTON5947060550BITUMINOUS LABORATORYEA1			ALTERNATE A: CONCRETE SHOULDERS						
216       0100       WATER       M GAL       609         302       0100       SALVAGED BASE COURSE       TON       30,453         550       0105       6IN NON-REINF CONCRETE PAVEMENT CL AE       SY       42,786         ALTERNATE B: CONCRETE MEDIAN SHOULDER W/ 8' ASPHALT OUTSIDE SHOULDER         SPEC       CODE       ITEM DESCRIPTION       UNIT       TOTAL         216       0100       WATER       M GAL       785         302       0100       SALVAGED BASE COURSE       TON       39,244         401       0050       TACK COAT       GAL       12,034         430       0040       SUPERPAVE FAA 40       TON       9,877         430       0040       SUPERPAVE FAA 40       TON       594         430       5803       PG 58S-28 ASPHALT CEMENT       TON       594         706       0550       BITUMINOUS LABORATORY       EA       1	SPEC	CODE	ITEM DESCRIPTION	UNIT	ΤΟΤΑΙ	_			
302       0100       SALVAGED BASE COURSE       TON       30,453         550       0105       6IN NON-REINF CONCRETE PAVEMENT CLAE       SY       42,786         ALTERNATE B: CONCRETE MEDIAN SHOULDER W/ 8' ASPHALT OUTSIDE SHOULDER         SPEC       CODE       ITEM DESCRIPTION       UNIT       TOTAL         216       0100       WATER       M GAL       785         302       0100       SALVAGED BASE COURSE       TON       39,244         401       0050       TACK COAT       GAL       2,220         401       00060       PRIME COAT       GAL       12,034         430       0040       SUPERPAVE FAA 40       TON       9,877         430       1000       CORED SAMPLE       EA       109         430       5803       PG 585-28 ASPHALT CEMENT       TON       594         706       0550       BITUMINOUS LABORATORY       EA       1	216	0100	WATER	M GAL	609				
ALTERNATE B: CONCRETE MEDIAN SHOULDER W/ 8' ASPHALT OUTSIDE SHOULDER         SPEC       CODE       ITEM DESCRIPTION       UNIT       TOTAL         216       0100       WATER       M GAL       785         302       0100       SALVAGED BASE COURSE       TON       39,244         401       0050       TACK COAT       GAL       2,220         401       0060       PRIME COAT       GAL       1,2034         430       0040       SUPERPAVE FAA 40       TON       9,877         430       1000       CORED SAMPLE       EA       109         430       5803       PG 585-28 ASPHALT CEMENT       TON       594         706       0550       BITUMINOUS LABORATORY       EA       1	302 550	0100	SALVAGED BASE COURSE 6IN NON-REINF CONCRETE PAVEMENT CL AE	TON SY	30,453	3			
ALTERNATE B: CONCRETE MEDIAN SHOULDER W/ 8' ASPHALT OUTSIDE SHOULDER SPEC CODE ITEM DESCRIPTION UNIT TOTAL 216 0100 WATER M GAL 785 302 0100 SALVAGED BASE COURSE TON 39,244 401 0050 TACK COAT GAL 2,220 401 0060 PRIME COAT GAL 12,034 430 0040 SUPERPAVE FAA 40 TON 9,877 430 1000 CORED SAMPLE EA 109 430 5803 PG 585-28 ASPHALT CEMENT TON 594 706 0550 BITUMINOUS LABORATORY EA 1									
SPEC         CODE         ITEM DESCRIPTION         UNIT         TOTAL           216         0100         WATER         M GAL         785           302         0100         SALVAGED BASE COURSE         TON         39,244           401         0050         TACK COAT         GAL         2,220           401         0060         PRIME COAT         GAL         12,034           430         0040         SUPERPAVE FAA 40         TON         9,877           430         1000         CORED SAMPLE         EA         109           430         5803         PG 58S-28 ASPHALT CEMENT         TON         594           706         0550         BITUMINOUS LABORATORY         EA         1		ALTERI	NATE B: CONCRETE MEDIAN SHOULDER W/ 8' ASPHALT OUTSI	DE SHOULDE	R				
216         0100         WATER         M GAL         785           302         0100         SALVAGED BASE COURSE         TON         39,244           401         0050         TACK COAT         GAL         2,220           401         0060         PRIME COAT         GAL         12,034           430         0040         SUPERPAVE FAA 40         TON         9,877           430         1000         CORED SAMPLE         EA         109           430         5803         PG 58S-28 ASPHALT CEMENT         TON         594           706         0550         BITUMINOUS LABORATORY         EA         1	SPEC	CODE	ITEM DESCRIPTION	UNIT	ΤΟΤΑΙ				
302         0100         SALVAGED BASE COURSE         TON         39,244           401         0050         TACK COAT         GAL         2,220           401         0060         PRIME COAT         GAL         12,034           430         0040         SUPERPAVE FAA 40         TON         9,877           430         1000         CORED SAMPLE         EA         109           430         5803         PG 58S-28 ASPHALT CEMENT         TON         594           706         0550         BITUMINOUS LABORATORY         EA         1	216	0100	WATER	MGAL	785				
401         0050         IACK COAI         GAL         2,220           401         0060         PRIME COAT         GAL         12,034           430         0040         SUPERPAVE FAA 40         TON         9,877           430         1000         CORED SAMPLE         EA         109           430         5803         PG 58S-28 ASPHALT CEMENT         TON         594           706         0550         BITUMINOUS LABORATORY         EA         1	302	0100	SALVAGED BASE COURSE	TON	39,244	1	I-29 - N of Galchutt Exit to Ch	ristine Ex	dit
430         0040         SUPERPAVE FAA 40         TON         9,877           430         1000         CORED SAMPLE         EA         109           430         5803         PG 58S-28 ASPHALT CEMENT         TON         594           706         0550         BITUMINOUS LABORATORY         EA         1	401	0050	PRIME COAT	GAL	2,220	1			
430         1000         CORED SAMIFLE         EA         109           430         5803         PG 58S-28 ASPHALT CEMENT         TON         594           706         0550         BITUMINOUS LABORATORY         EA         1	430	0040	SUPERPAVE FAA 40	TON	9,877		Estimate of Quantitie	es	
706 0550 BITUMINOUS LABORATORY EA 1	430	5803	PG 58S-28 ASPHALT CEMENT	TON	594				
	706	0550	BITUMINOUS LABORATORY	EA	1				

			Revised	11/07/17	STAT	E PROJECT NO.	NO.	NO.
					NE	) IM-8-029(170)033	8	1
		ESTIMATE OF QUANTITIES						
SPEC	CODE	ITEM DESCRIPTION	UNIT	TOTAL	-			
714	1005	PIPE CONC REINF 42IN CL III	LF	6				
714	3023	END SECT-TRAVERSABLE REINF. CONC.24IN	EA	11				
714	3030 3033	END SECT-CONC REINF 30IN END SECT-TRAVERSABLE REINF, CONC,30IN	EA EA	4	_			
714	3035	END SECT-CONC REINF 36IN	EA	13				
714	3036	END SECT-TRAVERSABLE REINF. CONC.36IN END SECT-CONC REINF 42IN	EA	1				
714	3045 4122	END SECT-CONC REINF 48IN PIPE CONDUIT 42IN-APPROACH	EA	1				
714	7030	PIPE PVC 12IN	LF	311				
714	9640 9659	RELAY PIPE-ALL TYPES & SIZES REMOVE & RELAY PIPE-ALL TYPES & SIZES		1,726	_			
714	9660	REMOVE & RELAY END SECTION-ALL TYPE & SIZES	EA	2				
714	9900	FLAP GATE 42IN	EA	298				
720	0125	ALIGNMENT MONUMENTS	EA EA	1				
722	3485	CASTING MOUNTABLE CURB-TYPE A	EA	12				
722	4581 0141	CURB & GUTTER-TYPE 1 SPECIAL	LF	60	_			
748	0150	MOUNTABLE CURB & GUTTER-TYPE 1 SEC A	LF	480				
752	0993	FENCE TERMINAL	EA	9,139				
752	3120	CORNER ASSEMBLY WOVEN WIRE	EA EA	10				
754	0110	FLAT SHEET FOR SIGNS-TYPE XI REFL SHEETING	SF	50				
754 754	0112 0195	FLAT SHEET FOR SIGNS-TYPE IV REFL SHEETING DIAMOND GRADE DELINEATORS-TYPE A	EA SF	59	_			
754	0196	DIAMOND GRADE DELINEATORS-TYPE B	EA	64				
754	0198	DIAMOND GRADE DELINEATORS-TYPE D	EA	2				
754 754	0210	GALV STEEL POST-STANDARD PIPE		139				
754	0534	PANEL FOR SIGNS-TYPE IV REFLECTIVE SHEETING	SF	1,116				
754 754	0556 0801	OBJECT MARKERS - TYPE I	EA EA	11				
754	0805	OBJECT MARKERS - CULVERTS	EA	69				
754	1100	REMOVE SIGN FOUNDATION	EA	23				
754 760	1220	REMOVE OVERHEAD SIGN STR BRIDGE MOUNTED	EA	20.84	_			
762	0103	PVMT MK PAINTED-MESSAGE	SF	82.5				
762	0200	SHORT TERM 4IN LINE-TYPE NR	LF	28,092				
762	1104		LF	225,11	1			
762	1124	PVMT MK PAINTED SIN LINE PVMT MK PAINTED 24IN LINE	LF	130				
764	0131	W-BEAM GUARDRAIL W-BEAM GUARDRAIL END TERMINAL	LF FA	1,164				
764	0151	REMOVE W-BEAM GUARDRAIL & POSTS	LF	1,908				
764	1050	RESET W-BEAM GUARDRAIL REMOVE CONCRETE SAFETY SHAPE TRANSITION	EA	800	_			
764	2081	REMOVE END TREATMENT & TRANSITION	EA	20				
990	0400	PIPE CLEANOUT	EA	12				
		ALTERNATE A: CONCRETE SHOULDERS						
SPEC	CODE	ITEM DESCRIPTION	UNIT	TOTAL				
216	0100		M GAL	609				
<u>302</u> 550	0100	6IN NON-REINF CONCRETE PAVEMENT CL AE	SY	<u>30,453</u> <u>42,7</u> 86	) ;			
	ALTER	NATE B: CONCRETE MEDIAN SHOULDER W/ 8' ASPHALT OUTSI	DE SHOULDE	R				
SPEC	CODE	ITEM DESCRIPTION	UNIT	TOTAL	-			
216	0100	WATER	M GAL	785		I-29 - N of Galchutt Exit to Ch	ristine Ex	<sub>tit</sub>
401	0050	TACK COAT	GAL	2,220	,			
401 430	0060	PRIME COAT SUPERPAVE FAA 40	GAL TON	12,034		Estimate of Quantitie	es	
430	1000	CORED SAMPLE	EA	109				
430 706	5803 0550	BITUMINOUS LABORATORY	EA	<u> </u>				

			Revised	11/07/17	STAT	PROJECT NO.	NO.	SHEET NO.
					NE	D IM-8-029(170)033	8	1
		ESTIMATE OF QUANTITIES						
SPEC	CODE	ITEM DESCRIPTION	UNIT	ΤΟΤΑΙ	-			
714 714	1005 3020	PIPE CONC REINF 42IN CL III END SECT-CONC REINF 24IN	LF EA	<u>6</u> 18				
714	3023	END SECT-TRAVERSABLE REINF. CONC.24IN	EA	11				
714	3030	END SECT-CONC REINF 30IN END SECT-TRAVERSABLE REINF. CONC.30IN	EA	3	_			
714	3035	END SECT-CONC REINF 36IN	EA	13				
714	3030	END SECT-CONC REINF 42IN	EA	1				
714	3045	END SECT-CONC REINF 48IN	EA	1				
714	7030	PIPE PVC 12IN	LF	311				
714	9640 9659	RELAY PIPE-ALL TYPES & SIZES		1,726				
714	9660	REMOVE & RELAY END SECTION-ALL TYPE & SIZES	EA	204				
714	9900 9917	INSTALL CONCRETE PIPE TIES FLAP GATE 42IN	SET FA	298				
720	0125	ALIGNMENT MONUMENTS	EA	1				
720	0135	IRON PIN REFERENCE MONUMENTS	EA FA	11				
722	4581	RELAY PRECAST CONCRETE MEDIAN DRAIN	ĒA	1				
748	0141	CURB & GUTTER-TYPE 1 SPECIAL MOUNTABLE CURB & GUTTER-TYPE 1 SEC A		60	-+			
752	0700	FENCE WOVEN WIRE	LF	9,139				
752	3120	CORNER ASSEMBLY WOVEN WIRE	EA EA	10				
752	4120	DOUBLE BRACE ASSEMBLY WOVEN WIRE	EA	2				
754	0110	FLAT SHEET FOR SIGNS-TYPE XTREFL SHEETING	SF SF	50				
754	0195	DIAMOND GRADE DELINEATORS-TYPE A	EA	141				
754	0196	DIAMOND GRADE DELINEATORS-TYPE B DIAMOND GRADE DELINEATORS-TYPE D	EA	18	_			
754	0199	DIAMOND GRADE DELINEATORS-TYPE E	EA	2				
754	0210	GALV STEEL POST-STANDARD PIPE GALV STEEL POSTS-W-SHAPE POSTS(TWO OR MORE)		692				
754	0534	PANEL FOR SIGNS-TYPE IV REFLECTIVE SHEETING	SF	1,116				
754	0358	OBJECT MARKERS - TYPE I	EA	3				
754	0805	OBJECT MARKERS - CULVERTS	EA	69				
754	1104	REMOVE SIGN FOUNDATION	EA	23				
754	1220	REMOVE OVERHEAD SIGN STR BRIDGE MOUNTED	EA MILE	20.84				
762	0103	PVMT MK PAINTED-MESSAGE	SF	82.5				
762	0200	RAISED PAVEMENT MARKERS SHORT TERM 4IN LINE-TYPE NR	EA	28,092	2			
762	1104	PVMT MK PAINTED 4IN LINE	LF	225,11	1			
762	1108	PVMT MK PAINTED 8IN LINE PVMT MK PAINTED 24IN LINE		2,518				
764	0131	W-BEAM GUARDRAIL	LF	1,164				
764	0145	REMOVE W-BEAM GUARDRAIL & POSTS	LF	1,908				
764	1050	RESET W-BEAM GUARDRAIL	LF	800				
764	2081	REMOVE END TREATMENT & TRANSITION	EA	20				
900	1000	TEMPORARY STREAM DIVERSION	EA	1				
990	0400	FIFE CLEANOUT		12				
		ALTERNATE AL CONCRETE SHOLL DERS						
00000	0055							
SPEC	CODE		UNIT	TOTAL	-			
216 302	0100 0100	WATER SALVAGED BASE COURSE	M GAL TON	609	3			
550	0105	6IN NON-REINF CONCRETE PAVEMENT CL AE	SY	42,786	3			
				D				
	ALTER	WATE B. CONGRETE MEDIAN SHOULDER W/ & ASPHALT OUTS		-11				
SPEC	CODE	ITEM DESCRIPTION	UNIT	TOTAL	-			
216	0100	WATER	M GAL	785		1.20 Nof Colobust Eultria Ob	detine To	/1+
<u> </u>	0100	SALVAGED BASE COURSE TACK COAT	GAI	39,244	+	1-29 - IN OF GAICHULL EXIL TO CH	msune ⊏x	ML
401	0060	PRIME COAT	GAL	12,034	1	Estimate of Quantitie	29	
430	0040	SUPERPAVE FAA 40 CORED SAMPLE	EA	9,877				
430	5803	PG 58S-28 ASPHALT CEMENT	TON	594				
/06	0550	BITUMINUUS LABUKATURY	EA	1				

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11/7/2017

jonathanbach

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2017	STATE		PROJECT NUMBER	SECTION NO.	SHEET NO.					
	ND	IN	1-8-029(170)033	170	23A					
2"-		<u>8"</u>	<u>-2<sup>7</sup>/8"</u>							
		33%=		م <u>ا</u>						
	· - •- · - •-	++ *****************************		ما ب						
	, - <b>∳</b> -	13%"  3%"  →		6%" 514"						
2'-5¾	é"									
1 	2'-8½ '-2½" 	"~ HSS 5 × 5 ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	E DETAILS The was orig sealed by Registratio on 9/21/20 document is Dakota Tr	is document inally issued Lindsay B n Number Pl 17 and the stored at the Department ansportation	l and ossert E 8395 original ne North t of					
				ORTATION						
	BRIDGE LAYOUT									
	PROJECT: IM-8-029(170)033									
	RICHLAND COUNTY									
		0 <u>9/2</u> DATE	<u>22/17Jon</u>	Ketterling						

29-041.629R-1











#### SLAB POURING SEQUENCE DIAGRAM

	23 U S C 409	Revised 9/21/2017	STATE	PROJECT NUMBER	SECTION	SHEET NO
	NDDOT Reserves All Objections		ND	IM-8-029(170)033	170	27
1'-0" End Bridge	NDDOT Reserves All Objections	20:1 Limits of Excavation the cost to furnish an oncrete Bridge Approa	ND Class 1 / m	IM-8-029(170)033		27
3	BRIDGE BID ITEMS			This was origin sealed by Registration on 09/21/20 document is Dakota Trar	document ally issued Lindsay Bo Number PE 7 and the stored at th Department sportation	and ossert 5 8395 original e North t of
SPEC CODE	ITEM DESCRIPTION		TTY			
202         0111           602         0130           602         1133           602         1250	REMOVAL OF CONCRETE CLASS AAE-3 CONCRETE CONCRETE BRIDGE APPROACH SLAB PENETRATING WATER REPELLENT TREATMENT	L SUM CY 21 SY 14 SY 14	1 69.6 44.4 783	CHRISTINE INTERCH	ANGE	
612 0115 612 0116	REINFORCING STEEL-GRADE 60 REINFORCING STEEL-GRADE 60-EPOXY COATED	LBS 1 LBS 68	204 747	DEAD LOAD DEFLECTIONS ABUTMENT & BID ITEM Q	S, DETAIL UANTITI	_ AT ES

29-044.126-3



(SHOWING REINFORCING BETWEEN SUPPORTS) (SHOWING REINFORCING OVER PIERS)

SLAB SECTION

### NOTE:

Include the connection plates and pipes in the pay item "Class AAE-3 Concrete."

2 Sp @ 9¾"

3"

This docum was originally iss sealed by Lindsa Registration Numbe on 09/21/2017 and document is stored Dakota Departr Transportat

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17	STATE	PROJECT NUMBER	SECTION NO.	SHEET NO.
	ND	IM-8-029(170)033	170	31
<u>} c</u>		DETAIL		
Bi	ARRIE	%" ø x 3" Galv Carriage Bolt         Leave top of head %" above         finished concrete.         (See D-900-1)         * 5XL500         * 5XK500         * 5XK500         * Provide a 1½" clearan         to the barrier reinforcir         SHOWING REINFORC         R DETAIL	4XAA503 (typ) ce ng. ING	
		QUANTITIES		
		CLASS AAE-3 CONCRETE	2	04 I BC
		REINFORCING STEEL (EPOXY)	68.7	47 LBS
ner sue y er f the at me	nt ed and Bossert PE 8395 e origina the Nori ent of n	CHRISTINE INTERCHA	NGE	



POST SIZES								
	Treate	d wood	Steel					
USE OF POST	Post dia	Post length	Post length	Post wt. Lbs/Ft	Anchor wt. Lbs			
Line post	3½"	6'-6"	6'-6"	1.33	0.67			
Corner post	8"	8'	7'	4.10	(Conc.)			
End post	5"	8'						
Brace post	5"/3½"	8'	7'	3.19	(Conc.)			
Gate post	5"	8'						
Horizontal brace	31/5"	Var.	As approved by the Engineer					